

Capítulo C 10: ENERGÍA, MINERÍA Y ADAPTACIÓN AL CAMBIO CLIMÁTICO

LÍNEAS GENERALES:

La minería tradicional deja de ser sostenible en Europa, excepto en algunos casos. Nuevas modalidades extractivas más sostenibles.

Las energías renovables son el futuro de muchas regiones fronterizas.

Incipientes posibilidades de CTF en esta materia.

Algunas propuestas de la ARFE.

PUNTOS CLAVE:

Las regiones fronterizas, a veces especializadas en minería, han tenido que reconvertirse en muchas ocasiones, o al menos aplicar renovaciones sistemáticas.

El intercambio de buenas prácticas puede diseminar el conocimiento de nuevas modalidades extractivas más sostenibles y productivas. En este sector es muy posible encontrar ejemplos de buenas prácticas en otros continentes, particularmente en las Américas. Una colaboración mayor entre regiones mineras de todo el mundo permitiría compartir información sobre las mejores experiencias en seguridad, productividad y sostenibilidad de este controvertido sector.

Las energías renovables en alza, la necesidad de buscar alternativas a los combustibles fósiles, y la lucha contra el cambio climático están obligando a cambiar muchos paradigmas. Energía solar, eólica, mareomotriz, hidráulica sostenible, biomasa, la fisión nuclear segura, la fusión termonuclear, el hidrógeno, ... pueden ser la solución en muchos lugares de Europa mediante la constitución de clusters transfronterizos de energías limpias. Una asociación entre las administraciones públicas implicadas, el sector privado, la sociedad civil y las universidades y centros de investigación permite identificar las fortalezas y oportunidades de la región (al igual que sus puntos flacos y sus amenazas).

Ejemplos de cooperación.

Propuesta de intergrupo en el *Covenant of Mayors* del Comité de las Regiones.

EJEMPLOS:

- Planificación Energética Regional (AL/GR)
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BIBLIOGRAFÍA:

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Véase capítulo C3 “Transportes, infraestructuras y telecomunicaciones” para una visión general del planteamiento estratégico y programático europeo para el acceso de las regiones a estrategias para mejorar los transportes y las infraestructuras (transporte, redes de energía, telecomunicaciones) vinculados a los asuntos principales.

La Unión también ha apoyado la conexión, interoperatividad y aplicación de las redes de energía en las Redes Transeuropeas de Transporte, Energía y Telecomunicaciones

(TEN), en particular las redes eléctricas y las redes de gas natural, así como el acceso a las mismas, teniendo como objetivos fundamentales:

- Establecer el mercado único de la energía;
- asegurar el abastecimiento de energía; y
- fomentar el desarrollo de fuentes de energía renovable.

Textos agrupados del *Covenant of Mayors* y de la propuesta de *Covenant of Border Regions for Sustainable Development*

Regio Flash, 2nd June 2015

Promoting Green and Efficient Energy for Europe's Regions

The European Commission is launching the European Smart specialisation platform on energy, which will support regions and Member States in using Cohesion Policy funding more effectively for promoting sustainable energy. The Platform will help regions to share their expertise on sustainable energy investments and especially on the deployment of innovative low-carbon technologies.

By supporting the optimal use of Cohesion Policy funds for sustainable energy projects, the Platform will directly contribute to the European Energy Union Strategy. It will also aim to better align innovation activities in the field of energy at national, regional and local level with a view to setting up a joint strategic agenda on energy priorities. The platform, which has been set up by the Commission's in-house science service, the Joint Research Centre (JRC), will contribute to boosting economic growth in the regions by ensuring sustainable, competitive and secure energy supply.

Examples of Energy projects funded by Cohesion Policy

UNITED KINGDOM: the Wave Hub will support the advancement of technology and R&D activities in the field of marine renewable energy. The aim is to create the world's largest test site for devices generating electricity from the waves on the Cornwall & Isles of Scilly (Total investment €40.5 million, ERDF: €22.6 million)

AUSTRIA: Experts in the building industry are working together in Lower Austria to ensure that old and new constructions are as green as possible. The Green Building Cluster draws on new techniques and concepts such as passive housing and renewable energy (Total investment: €3.4 million, ERDF: €937,400)

HUNGARY: Kistelek, a small town in the South of Hungary, is leading the way in geothermal energy use. Kistelek has drilled a well to thermal water 1,700 metres deep that is capable to supply eight public institutions. The project is being held up as an example to other local councils (Total investment €2.96 billion, ERDF: €2.7 billion).

LITHUANIA: Lithuanian government designed a scheme to renovate public buildings to reduce energy consumption and the high running costs related to this (Total investment: €2.96 billion, Cohesion Fund investment: €2.7 billion).

More information:

- Press Release
- Launch of the European Smart Specialisation Platform on Energy
- Smart specialisation platform on energy
- How EU Cohesion Policy is helping to tackle the challenges of climate change and energy security
- Infographics about Smart Specialisation Platform: How -Outcomes - Why
- Low-carbon economy
- Smart specialisation platform on research and innovation strategies
- Twitter: @EU_Regional / @CorinaCretuEU / @S3Platform / @EU_ScienceHub #EnergyUnion #RIS3 #smartspecialisation

INTERREG II-A

Caso C.10.1: **Planificación Energética Regional (AL/GR)**

Este proyecto se ocupó de la planificación energética regional y supuso la cooperación entre Albania y Grecia Noroccidental (las regiones de Épiro y Macedonia Occidental). El objetivo del proyecto fue evaluar las fuentes de energía regionales y nacionales y la planificación regional de su aprovechamiento, con el fin de desarrollar una estrategia común, ayudar en la puesta en marcha del plan energético propuesto y fomentar el intercambio de experiencias en el sector energético entre Albania y la Unión Europea. La duración del proyecto fue de 19 meses. Los principales esfuerzos se concentraron en: recopilación de los estudios de referencia, datos y otra información relacionada existente, la valoración de la situación y la preparación de un informe inicial con sugerencias para un plan energético interregional.

Este proyecto se complementó con un programa para la creación de un servicio de información y formación establecido en Ioannina (GR) y Tirana (AL) dedicado a la divulgación de los resultados de estos estudios, proporcionó detalles para el plan energético conjunto y el intercambio de información y conocimientos prácticos en el sector de la energía, incluyendo el uso y beneficios de las tecnologías de la información y los bancos de datos.

El proyecto se financió gracias al apoyo del programa SYNERGY de la UE. El comité de dirección del proyecto incluía participantes griegos y albaneses (representantes de la *Fundación Egnatia Epirus*, la *Universidad Técnica de Albania* y el *Centro de Gestión y Divulgación de la UE* en Albania).

Contactos: Egnatia Epirus Foundation; Voriou Ipirou 20; GR-453 33 Ioannina
Tel: +30 651 721 65 Fax: +30 651 312 24

Ejemplos de proyectos de Interreg IV-A

Special EU Programmes Body (SEUPB)

Caso C.10.2: **ISLES (2011-2012) – Aceleración del Desarrollo de Energías Renovables en las Costas de Escocia e Irlanda (UK/IE)**

Proyecto colaborativo entre el Gobierno Autónomo de Escocia, el Ejecutivo de Irlanda del Norte y el Gobierno de la República de Irlanda. Financiado en su mayor parte por el SEUPB, ha valorado la viabilidad de crear un tendido eléctrico submarino con una red de transmisión interconectada cercana a la costa basada en fuentes de energía renovable en las costas de Escocia Occidental y el área del Mar de Irlanda y Canal del Norte.

El área examinada tiene un enorme potencial en las energías eólica y mareomotriz. Sin embargo, las redes eléctricas de cada región no se han desarrollado teniendo en cuenta un tendido submarino, capaz de explotar esta gran fuente renovable marina. En consecuencia, la capacidad de generar electricidad no está cubierta en la actualidad por las posibilidades de almacenar y transportar esa energía al mercado.

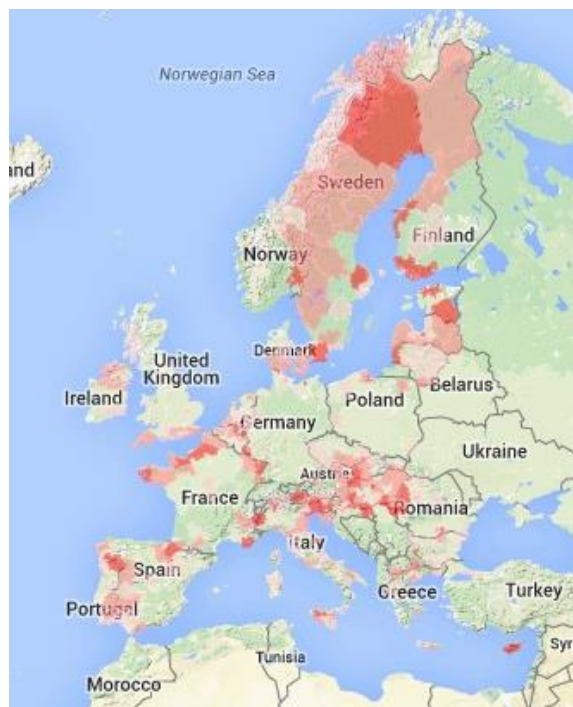
Los resultados del Estudio de Viabilidad de ISLES, llevado a cabo por RPS Group, se divulgaron en una conferencia final celebrada en Glasgow el 23 de noviembre de 2011. Los informes del proyecto (en inglés) están disponibles para descargarse en el siguiente link, junto con un documento de consulta:

<http://www.scotland.gov.uk/Topics/Business-Industry/Energy/Action/leading/iles/IslesReports>

Contacto:

islesproject@scotland.gsi.gov.uk

Renewable Energies during European Territorial Cooperation 2007-2013. A sample.



Partners intensity during period 2007-2013
in Renewable Energies
Source: KEEP database

Programme 2007-2013 Spain – External Borders

Caso C.10.3: **Procesos Integrales de Sostenibilidad Ambiental en Ciudades Transfronterizas (ES-MA)**

Acronym: ECOCIUDAD **Theme:** ENVIRONMENT and CLIMATE CHANGE

Keywords: Energy Efficiency, Renewal Energy Sources (RES)

Web: www.poctefex.eu/index.php?modulo=proyectos_aprobados

Total Budget + Funding Total: EUR 98.000.000; EU Funding: EUR 73.500.000

Duration (dates): 2011-11-01 - 2013-12-31

Lead Partner: Ayuntamiento de Málaga, E-29018 Málaga, Spain

Description: Desarrollo de una cultura común de eco-ciudad a ambos lados del Estrecho que, desde procesos descentralizados, permita la interacción de actores clave en la mejora y protección de los espacios naturales y los recursos ambientales.

Expected Results: Reducción del consumo energético. Innovación en la generación de energía mediante renovables. Acción ciudadana liderada por jóvenes y mujeres. Reciclaje de materiales para innovadoras infraestructuras ambientales.

Caso C.10.4: ***Diseño de la hoja de ruta Andalucía-Marruecos para el impulso de la energía solar termoeléctrica (ES-MA)***

Acronym: SOLEFLEX

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Energy efficiency, RES

Web: www.poctefex.eu/index.php?modulo=proyectos_aprobados

Total Budget + Funding Total: EUR 50.017.000; EU Funding: EUR 37.512.750

Duration (dates): 2011-12-01 - 2013-12-31

Lead Partner: Instituto Andaluz de Tecnología, Málaga, Spain, rzubizarreta@iat.es

Project Partners: CENTRO DE INVESTIGACIÓN ENERGÉTICA, MEDIO AMBIENTAL Y TECNOLÓGICA (CIEMAT) (ES)

Description: El objetivo general del proyecto consiste en diagnosticar y evaluar cualitativa y cuantitativamente la situación energética en Andalucía y el Norte de Marruecos así como su potencial crecimiento, definiendo el marco de actuación que ayude a fomentar el desarrollo de sistemas de energía solar termoeléctrica y microrredes eléctricas mediante la colaboración de las entidades de referencia en dicho sector, debido al enorme potencial del recurso y con el fin de ayudar a desarrollar planes de actuación para alcanzar los objetivos energéticos en el año 2020, fomentar la eficiencia energética, minimizar la dependencia de energía del exterior y poner en valor buenas prácticas fruto de experiencias en Andalucía, además de guiar al tejido empresarial andaluz líder en dichas tecnologías para que puedan explorar sus posibilidades de negocio en Marruecos como fruto de este estudio.

Expected Results: Establecimiento y consolidación de alianzas público-privadas que fomenten el uso de energías renovables y favorezcan la eficiencia energética entre Marruecos y España a través de Andalucía. Caracterización de la eficiencia y dependencia energética de Marruecos, realizando un análisis basado en las debilidades y fortalezas del sistema eléctrico marroquí en cuanto a calidad, estabilidad energética y compromiso medioambiental se refiere. Puesta en valor del recurso solar, mostrando qué plantas termoeléctricas solares, sistemas de almacenamiento y de distribución son los más adecuados en cuanto a fiabilidad y rentabilidad. Desarrollar una metodología o protocolo, fruto de los indicadores definidos durante la actividad, que describa de forma cuantitativa el potencial de aprovechamiento de energía de las regiones del norte de Marruecos y Andalucía, el impacto medioambiental asociado y su contribución a la reducción de la dependencia energética del país. Valoración la situación de partida respecto a la situación energética y las posibilidades de implantar sistemas de producción de energía solar termoeléctrica, almacenamiento y distribución de energía eléctrica. Definición de la estrategia más adecuada para Marruecos para alcanzar su objetivo de producir el 10% de la energía eléctrica del país mediante energía solar en el año 2020, gracias a las conclusiones obtenidas de todos los análisis propuestos. Captación del interés de las entidades de Andalucía por las necesidades y oportunidades que presenta Marruecos en el mercado internacional de la energía solar termoeléctrica, y ayudar a posicionarlas como referentes a nivel mundial en el sector. Descripción de las ventajas e inconvenientes que conlleva acometer una estrategia energética basada en energía solar de concentración combinada con la integración de microrredes de energía, otras fuentes de energía y su aplicación para desalinizar agua. Mejora en el conocimiento de la oferta tecnológica existente fruto de la realización de la visita de estudio. Cumplimiento del 100% de las actividades y acciones previstas en el Plan de Actuación del proyecto. Comunicación fluida y eficaz con el STC. Comunicación fluida y eficaz entre Beneficiarios. Un alto grado de difusión garantizado fruto de la elaboración de un plan de comunicación actualizado a lo largo del proyecto y de la creación de una imagen diferenciadora. Un portal de información para los actores del proyecto a través de la creación del portal web. La difusión de actividades y el fomento de 5 encuentros para actores del proyecto y actores del sector en ambas regiones.

Caso C.10.5: **Evaluación y Mejora de la Sostenibilidad del Sector Turístico Andalucía-Marruecos (ES-MA)**

Acronym: ECOTOUR **Theme:** ENVIRONMENT and CLIMATE CHANGE

Keywords: Energy efficiency Renewable energy Tourism

Web: www.poctefex.eu/index.php?modulo=proyectos_aprobados

Total Budget + Funding Total: EUR 44.424.700; EU Funding: EUR 33.318.525

Duration (dates): 2011-12-01 - 2013-11-30

Lead Partner: Instituto Andaluz de Tecnología
Calle Leonardo da Vinci, 41092 Seville, Sevilla, Spain
oaquilera@iat.es

Project partners: Centro de Innovación Turística de Andalucía – CINNTA(ES)

Description: Aumentar la competitividad y promocionar el uso eficiente de energías renovables entre las empresas del sector turístico andaluz y marroquí a través de la evaluación y mejora de los aspectos ambientales y energéticos asociados a sus actividades y/o servicios.

Expected Results: La transferencia de buenas prácticas de gestión ambiental y energética permitirán a las empresas del sector turístico andaluz y marroquí la mejora de los resultados ambientales y la reducción del consumo energético, garantizando en todo momento el cumplimiento de los requisitos legales.

Programa Operativo de Cooperación Transfronteriza España-Portugal (POCTEP) 2007-2013 (ES-PT)

Caso C.10.6: **Incremento de la competitividad de las pymes del sector de las energías renovables (ES-PT)**

Acronym: 0217_ER_INNOVA_1_E **Theme:** ECONOMIC DEVELOPMENT

Keywords: ICT & digital society, RES, Innovation capacity, awareness-raising

Web: www.poctep.eu/index.php?modulo=proyectos_aprobados

Total Budget + Funding Total: EUR 931.694; EU Funding: EUR 698.770

Duration (dates): 2008-01-01 - 2010-12-31

Lead Partner: Parque Tecnológico de Galicia, Ourense (ES)
luisa@tecnopole.es

Project partners: EGANET, Asociación de Empresas Galegas Adicadas a Internet (ES)
oscar.santos@eganet.org

Foundation for the Improvement of the Industrial Quality and Technological Development of Galicia (ES) lbouzon@opidi.org

NET, Novas Empresas e Tecnologías, SA Business and Innovation Center do Porto (BIC Porto) (PT) net@net-sa.pt

Description: Puesta en marcha de un servicio basado en herramientas avanzadas TIC destinadas a la mejora e la competitividad empresarial del sector de las Energías Renovables en la Eurorregión, mediante a optimización de los procesos empresariales y el fomento de actividades de I+D+i

Expected Results: Estructuras de colaboración estables para impulso de internacionalización de proyectos de I+D+i; Herramientas TIC de gestión sector E.Renov.; Plan piloto: implantación herramientas TIC en Pymes; Portal Colaborativo: fomento de I+D+i; Mercado Virtual: comercio/factura electrónica.

Caso C.10.7: **Red Transfronteriza de Autoridades Locales en Energías Renovables (ES-PT)**

Acronym: 0062_RETALER_6_E **Theme:** ENVIRONMENT and CLIMATE CHANGE

Keywords: Energy efficiency, RES, Education and training

Web: www.poctep.eu/index.php?modulo=proyectos_aprobados

Total Budget + Funding Total: EUR 2.157.000; EU Funding: EUR 1.617.750

Duration (dates): 2008-02-01 - 2010-12-31

Lead Partner: Diputación de Badajoz (DIPBA), Badajoz, Spain
jluna@dip-badajoz.es

Project partners: - AREAL, Agencia Regional de Energia e do Ambiente do Algarve(PT)
joliveira@areal-energia.pt

- Asociación de Municipios Cova da Beira (PT) carlos.santos@amcb.pt
- CIMAC, Comunidade Intermunicipal do Alentejo Central (PT) viktor.raminhos@cimac.pt
- Comunidade Intermunicipal do Alto Alentejo (PT) planeamento@cimaa.pt
- Association of Municipalities of Terra Fria of Nordeste Transmontano (PT)
m.oliveira@amtf-nt.pt
- Organismo Autónomo para el Desarrollo Local. Diputación de Cáceres (ES)
josemaria.barrera@oadl.es
- Diputación Provincial de Huelva. Área Energías Renovables (ES) macevedo@diphuelva.org
- Diputación de Ourense (ES) europa@depourense.es
- Diputación de Salamanca (ES) squinaldo@oaedr.es
- Diputación de Zamora (ES) rosario.almazan@zamoradipu.es
- Eixo Atlántico do Noroeste Peninsular (ES-PT)
norteportugalag@eixoatlantico.pt

Description:

OBJETIVO: Cooperación temática en Energías renovables entre autoridades locales, para promover su implantación, desde un enfoque integrado y homogéneo que cubra la frontera, supere las áreas tradicionales de cooperación y responda a los retos del espacio transfronterizo.

ACCIONES: Estudios y guías transfronterizas para la implantación de Energías renovables en la Raia. Proyectos piloto conjuntos Intercambio de buenas prácticas, sensibilización y formación.

Expected Results: Red transfronteriza de actores y gestores locales en energías renovables. Instalaciones públicas energéticamente eficientes. Estudios conjuntos. Herramientas de seguimiento. Personal capacitado (Políticos/técnicos/ciudadanos). Políticas locales y ordenanzas.

Caso C.10.8: **Medidas de Adaptación y Mitigación del Cambio Climático a Través del Impulso de las Energías Alternativas en Centro, Alentejo y Extremadura (ES-PT)**

Acronym: 0317_ALTERCEXA_4_E **Theme:** ENVIRONMENT and CLIMATE CHANGE

Keywords: RES, Knowledge and technology transfer, Green tech

Web: www.poctep.eu/index.php?modulo=proyectos_aprobados

Total Budget + Funding Total: EUR 2.781.259; EU Funding: EUR 2.085.944

Duration (dates): 2007-01-01 - 2010-12-31

Lead Partner: Junta de Extremadura, Consejería de Industria, Energía y Medio Ambiente, DG Evaluación y Calidad Ambiental, Avenida Portugal, S/N, 06800 Mérida, Badajoz, Spain
mangeles.perez@juntaextremadura.net

Project partners: - ADPM - Associação de Defesa do Património de Mértola (PT)
interambiental@adpm.pt

AREANATEjo, Agencia Regional de Energia e Ambiente do Norte Alentejano e Tejo (PT)
Tiago.gaio@areanatejo.pt

GESAMB, Gestão Ambiental e de Resíduos, EIM (PT) ana.silva@gesamb.pt

Instituto Politécnico de Beja (PT) vcarioca@ipbeja.pt

Instituto Politécnico de Portalegre (PT) gps@estgp.pt

RECET – Associação dos Centros Tecnológicos de Portugal gxavier@recet.pt

Universidade de Évora (PT) amdm@uevora.pt

Description: OBJETIVO: El objetivo general del proyecto es el fomento de la producción de energía con fuentes alternativas en las regiones de Centro, Alentejo y Extremadura.

ACCIONES: Incluyen actividades conjuntas de fomento de la investigación, estudio y análisis de tecnologías y potencial, búsqueda de soluciones técnicas eficientes, demostración y difusión y sensibilización de cara a la promoción de la inversión en esta área.

Expected Results: Establecimiento de una estructura estable común de investigación y actualización de las tecnologías aplicables a las energías alternativas, un conocimiento pormenorizado de los recursos energéticos existentes en el territorio y un plan de fomento de las EERR común.

Caso C.10.9: ***Acción integrada para la promoción e implantación de eficiencia energética y energías renovables como factor de competitividad (ES-PT)***

Acronym: 0128_PROBIOENER_2_E **Theme:** ENVIRONMENT and CLIMATE CHANGE

Keywords: Energy efficiency, RES, Knowledge and technology transfer

Web: www.poctep.eu/index.php?modulo=proyectos_aprobados

Total Budget + Funding Total: EUR 2.246.959; EU Funding: EUR 1.685.219

Duration (dates): 2009-01-01 - 2010-12-31

Lead Partner: Instituto de Recursos Naturales y Agrobiología de Salamanca (IRNASA) – CSIC, Centro Superior de Investigaciones Científicas, Salamanca, Spain
balbino.garcia@irnasa.csic.es

Project partners: Câmara Municipal de Bragança (PT) dda@cm-braganca.pt

Diputación de Zamora (ES) rosario.almazan@zamoradipu.es

Instituto Politécnico de Bragança (PT) avtl@ipb.pt

Nerba - Núcleo Empresarial da Região de Bragança - Associação Empresarial (PT)
hvideira@nerba.pt

Description:

OBJETIVO: Creación de centros de difusión y apoyo a proyectos energéticos, realización de acciones de fomento del ahorro en empresas y edificios públicos, diseño estratégico de un sistemas de producción de energía distribuida y valoración de potencial de cultivos energéticos.

ACCIONES: Creación de centros de difusión y apoyo a proyectos energéticos, realización de acciones de fomento del ahorro en empresas y edificios públicos, diseño estratégico de un sistemas de producción de energía distribuida y valoración de potencial de cultivos energéticos.

Expected Results: Creación de una infraestructura de cooperación para la difusión y promoción de proyectos. Realización de al menos 30 actuaciones para evaluar planes de ahorro en PYMES. Evaluación de alternativas de aprovechamiento de cultivos energéticos y biomasa forestal.

Caso C.10.10: **Gestión Energética Sostenible en Entidades Locales Transfronterizas (ES-PT)**

Acronym: 0023_ESOL_1_E **Theme:** ENVIRONMENT and CLIMATE CHANGE

Keywords: Energy efficiency, RES, Knowledge and technology transfer

Web:

Total Budget + Funding Total: EUR 1.238.550; EU Funding: EUR 928.912

Duration (dates): 2009-01-01 - 2010-12-31

Lead Partner: INEGA- Instituto Enerxético de Galicia
E-15703 Santiago de Compostela, A Coruña, Spain
mizquierdo@inega.es

Project partners: Câmara Municipal de Chaves (PT) pedro.silva@cm-chaves.pt

Câmara Municipal de Vinhais (PT) moura.santos@cm-vinhais.pt

IPVC - Instituto Politécnico de Viana do Castelo (PT) duarte.alves@estg.ipvc.pt

Ayuntamiento de A Mezquita (ES) angeles.crespo.amezquita@eidolocal.es

Ayuntamiento de Baltar (ES) informa@concellodebaltar.com

Ayuntamiento de Riós (ES) alcaldia@concelloderios.com

Ayuntamiento de Verín (ES) secretaria@verin.net

Description: Implantación de sistemas inteligentes y de alta eficiencia energética. Uso de fuentes energéticas renovables y limpias (solar, biomasa residual y geotermia). Aprovechamiento de los recursos energéticos endógenos del área. Transmisión de experiencias y conocimientos entre ambos países.

Expected Results: Sostenibilidad en la gestión del medio ambiente y de los recursos naturales mediante el desarrollo de la diversificación energética. Colaboración conjunta en la zona rayana para la dinamización de la actividad económica sostenible, generando oportunidades de empleo. Educación ambiental.

Programa Operativo de Cooperación Transfronteriza España-Francia-Andorra (POCTEFA) 2007-2013 (ES-PT)**Caso C.10.11: *Superación de las barreras al desarrollo de cultivo de microalgas con fines bioenergéticos (ES-FR)***

Acronym: ENERGREEN **Theme:** ENVIRONMENT and CLIMATE CHANGE

Keywords: RES, agriculture, fisheries and forestry

Web: www.poctefa.eu/

Total Budget + Funding Total: EUR 1.015.701; EU Funding: EUR 660.206

Duration (dates): 2012-04-01 - 2014-03-31

Lead Partner: NEIKER-Instituto Vasco de Investigación y Desarrollo Agrario, Vitoria-Gasteiz, Álava (ES) scdelatorre@neiker.net

Project partners: CATAR-CRITT Agroressources (FR) christine.raynaud@ensiacet.fr

UNIVERSIDAD DEL PAÍS VASCO (ES) juanl.serra@ehu.es

ASSOCIATION POUR L'ENVIRONNEMENT ET LA SECURITE EN AQUITAINE (FR)

Jeanlouis.crabos@apesa.fr

CENER CIEMAT (ES) iecheverria@cener.com

Fundación TECNALIA Research & Innovation (ES) amaya.artech@tecnalia.com

Description: Debido a las previsiones al alza de la demanda energética, las microalgas están siendo promovidas como una fuente ideal de bioenergía porque no compiten con los cultivos destinados a alimentación humana y animal y pueden potencialmente producir más rendimiento. Las algas tienen un elevado potencial bioenergético porque pueden ser utilizadas para la obtención de biodiesel y etanol o biogás. No obstante, hoy en día la producción anual de biomasa de microalgas no puede cubrir las expectativas de una cadena de suministro.

Caso C.10.12: *Gestión ambiental y energética en las PYMEs y desarrollo de la Eco-Economía. Por un desarrollo económico transfronterizo sostenible (ES-FR)*

Acronym: ENECO

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy SME and entrepreneurship

Web: www.poctefa.eu/

Total Budget + Funding Total: € 1.843.897; EU Funding: € 1.198.533

Duration (dates): 2009-02-01 - 2011-05-31

Lead Partner: FUNDACIÓN CENTRO DE RECURSOS AMBIENTALES DE NAVARRA
Calle Padre Adoáin, 217, 31015 Pamplona, Navarre, Spain
ANACARMEN@CRANA.ORG

Project partners: AGENCIA DE DESARROLLO ECONÓMICO DE LA RIOJA -(ES)
ENRIQUE.ESTEBAN@ADER.ES

ASSOCIATION POUR L'ENVIRONNEMENT ET LA SECURITE EN AQUITAINE (FR)
benoit.deguillebon@apesa.fr

ASOCIACION DE EMPRESARIOS DE LA MERINDAD DE ESTELLA (LASEME) (ES)
LASEME@LASEME.NET

FUNDACION ECOLOGIA Y DESARROLLO (ES)
eva.gonzalez@ecodes.org

AGENCE REGIONALE POUR L'ENVIRONNEMENT (FR)
llorca.s@arpe-mip.com

Description: ENECO continúa el proyecto de cooperación transfronteriza CINTER + llevado a cabo entre 2005 y 2007 para mejorar la eficiencia medioambiental y energética de las PYME. Los puntos fuertes de este nuevo proyecto serán las acciones conjuntas realizadas, como contraposición a las del proyecto CINTER +, que hacía hincapié en las acciones individuales.

El objetivo es promover la implantación de sistemas colectivos de gestión medioambiental en las zonas de actividad de las 5 regiones participantes, así como el uso de energías renovables y tecnologías limpias en las PYMES.

Caso C.10.13: Red Energía y Medio Ambiente (ES-FR)

Acronym: REMAR

Theme: ECONOMIC DEVELOPMENT

Keywords: Renewable energy; green technologies; sustainable management of natural resources

Web: www.poctefa.eu/

Total Budget + Funding Total: € 1.276.860; EU Funding: € 829.959

Duration (dates): 2009-01-01 - 2011-10-30

Lead Partner: ASSOCIATION POUR L'ENVIRONNEMENT ET LA SECURITE EN AQUITAINE, 2 Avenue du Président Pierre Angot, 64000 Pau, France
benoit.deguillebon@apesa.fr

Project partners: FUNDACION LEIA (ES) jesust@leia.es

L'UREDERRA (ES) mireya.maeztu@lurederra.es

FUNDACION GAIKER (ES) salas@gaiker.es

AIN - ASOCIACION DE LA INDUSTRIA NAVARRA (ES) mherias@ain.es

ACLIMA - ASOCIACION CLUSTER DE INDUSTRIAS DE MEDIO AMBIENTE DE EUSKADI (ES) aclima@aclima.net

FER - FEDERACION DE EMPRESARIOS DE LA RIOJA (ES) eva.internacionel@fer.es

ESTIA INNOVATION (FR) a.falchi@estia.fr

CENER CIEMAT (ES) iecheverria@cener.com

Description: En un mundo en el que las aspiraciones relativas al medio ambiente son cada vez más apremiantes, es necesario acelerar la concienciación a favor de las tecnologías energéticas y medioambientales de los gestores socioeconómicos y alentar el desarrollo de dichas tecnologías para que contribuyan, a la vez, a la protección del entorno y al desarrollo económico regional.

Caso C.10.14: **Ein Exzellenzcluster für organische Solarzellen am Oberrhein (DE-FR)**

Acronym: RHIN-SOLAR **Programme:** 2007 - 2013 Upper Rhine (FR-DE)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Energy efficiency, renewable energy; institutional cooperation and cooperation networks

Web: www.interreg-upperrhine.eu/

Total Budget + Funding Total: € 4.036.422; EU Funding: € 1.742.211

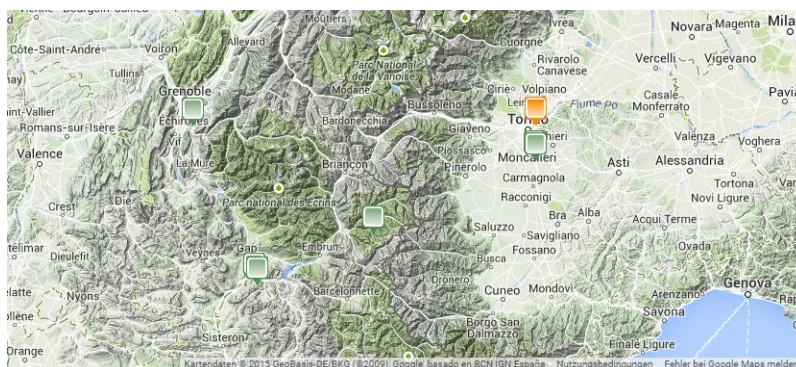
Duration (dates): 2012-01-01 - 2014-12-31

Lead Partner: CNRS - Centre National de la Recherche Scientifique
Paris, 83470 Seillons-Source-d'Argens, France

Project partners: Albert-Ludwigs-Universität Freiburg (DE)
Alsace Énergivie (FR)
KIT - Karlsruher Institut für Technologie (DE)
RB nano (FR)
ROWO Coating Gesellschaft für Beschichtung mbH (DE)
Université de Haute-Alsace (FR)
Université de Strasbourg (FR)

Description: « RHIN-SOLAR » vise le développement de cellules photovoltaïques organiques pour une production d'électricité à partir de l'énergie solaire. Cinquante chercheurs, ingénieurs, doctorants et techniciens, appartenant à des instituts de recherches et entreprises régionales, participeront au projet, avec l'objectif de mettre en réseau les compétences et moyens techniques, d'accélérer le développement de la technologie organique et de créer des conditions favorables à l'innovation dans le Rhin supérieur.

Ziel des Projektes „RHEIN-SOLAR“ ist die Entwicklung von organischen Solarzellen zur Erzeugung von Strom aus Sonnenenergie. Fünfzig Forscher, Ingenieure, Studenten und Techniker aus regionalen Forschungsinstituten und Unternehmen, werden an dem Projekt beteiligt sein, mit dem Ziel durch die Vernetzung von Expertenwissen und technischer Ressourcen die Entwicklung der organischen Technologie zu beschleunigen und Bedingungen für Innovation im Oberrhein zu schaffen.

Caso C.10.15: **PERSIL (IT-FR)**

Source: KEEP database

Acronym: PERSIL **Programme:** 2007 - 2013 Italy - France ALCOTRA (IT-FR)

Theme: ECONOMIC DEVELOPMENT

Keywords: Renewable energy; new products and services

Web: www.interreg-alcotra.org/2007-2013/?pg=progetti

Total Budget + Funding Total: € .510.380; EU Funding: € 782.377

Duration (dates): 2008-08-04 - 2011-08-04

Lead Partner: Environment Park, Via Livorno, 60, 10144 Turin, Italy
rebecca.boasso@envipark.com

Project partners: Conseil Général des Hautes Alpes (FR) j.vollaire@cg05.fr

Provincia di Torino (IT) denigris@provincia.torino.it

Commissariat à l'Energie Atomique - INES (FR) philippe.malbranche@cea.fr

Unione Industriale di Torino (IT) massimo.settis@ui.torino.it

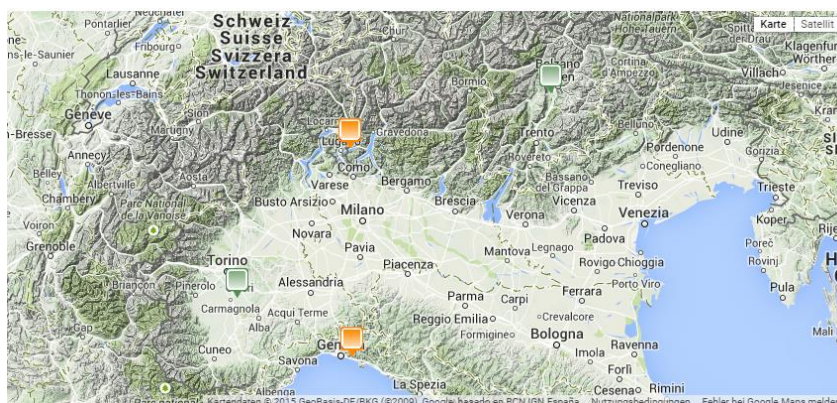
CAPEB 05 (FR) contact@capeb05.fr

Parc national des Ecrins (FR) yves.baret@espaces-naturels.fr

Parc naturel régional du Queyras (FR) b.opolka@pnr-queyras.fr

Description: Ottimizzazione della diffusione delle tecnologie solari (termiche e fotovoltaiche) utilizzate sul territorio transfrontaliero finalizzata alla realizzazione di azioni di scambio, messa in comune di informazioni e competenze utili allo sviluppo locale transfrontaliero delle modalità di produzione dell'energia solare (termica e fotovoltaica) e la relativa integrazione architettuale.

Caso C.10.16: *Innovazione Energetica (IT-CH)*



Source: KEEP database

Acronym:

Programme: 2007 - 2013 Italy - Switzerland (IT-CH)

Theme:

ENVIRONMENT and CLIMATE CHANGE

Keywords:

Energy efficiency Renewable energy Innovation capacity and awareness-raising

Web:

www.interreg-italiasvizzera.it

Total Budget + Funding Total: € 631.920; EU Funding: € 432.675

Duration (dates):

2012-01-02 - 2014-03-31

Lead Partner:

SPES Consulting srl, Genoa, Italy spesconsulting@hotmail.it

SUPSI- Scuola Universitaria Professionale Svizzera Italiana, Manno, Switzerland

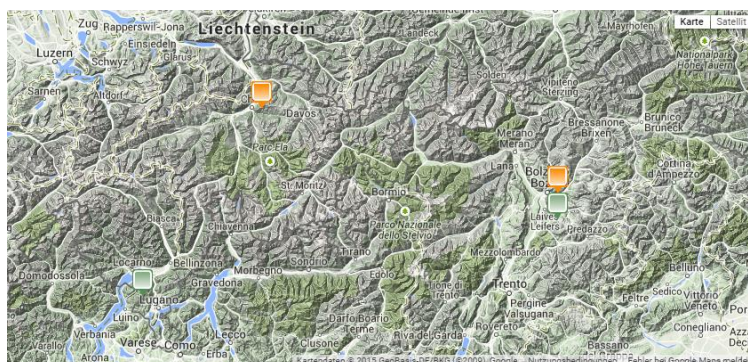
Project partners:

Comunita comprensoriale Burgraviato (IT)

Legambiente Piemonte e Valle d'Aosta Onlus (IT)

Description: The project's objective is to create the necessary conditions for local administrations to carry out sustainable energy and environmental policies. This should be done supporting local administrations in energy planning and technical and economic feasibility evaluation so as to implement the programmed interventions and integrated actions in energy management. This approach enables to modernise energy plants and buildings using external funding, therefore overcoming the current project funding difficulties of local administrations due to the contraction of public economic resources. The project also aims at increasing the population's awareness of the opportunities offered both by energy efficiency and renewable energy sources, encouraging the implementation of new projects.

Caso C.10.17: **PV-Alps (CH-IT)**



Source: KEEP database

Acronym: PV-Alps **Programme:** 2007 - 2013 Italy - Switzerland (IT-CH)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy ICT and digital society Evaluation systems and results

Web: www.interreg-italiasvizzera.it/home-it

Total Budget + Funding Total: € 235.318; EU Funding: € 140.475

Duration (dates): 2012-02-01 - 2014-04-30

Lead Partner: Accademia Europea per la ricerca applicata ed il perfezionamento professionale
Bolzano, Italy anke.tetzlaff@eurac.edu

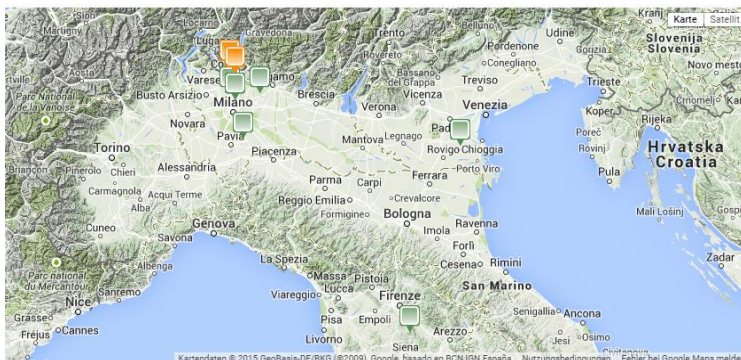
CANTONE GRIGIONI, Chur, Switzerland

Project partners: MeteoSwiss (CH)

Provincia Autonoma di Bolzano (IT)

Description: (...) locations and strategies for the competitive development of solar energy in alpine regions. Finally, PV-Alps foresees the extension of the project to include a third partner (Austria) in 2012.

Caso C.10.18: **Legno: saperi per un uso sostenibile della risorsa (CH-IT)**



Source: KEEP database

Acronym: LEGNO **Programme:** Programme: 2007 - 2013 Italy - Switzerland (IT-CH)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy; sustainable management of natural resources

Web: www.sapalp.eu/progetto/show/id/1

Total Budget + Funding Total: € 1.811.662; EU Funding: € 847.036

Duration (dates): 2010-04-01 - 2014-03-31

Lead Partner: EDEL Sagl, Morbio Superiore, Switzerland

PROVINCIA DI COMO, Como, Italy infopesca@provincia.como.it

Project partners: Associazione Italiana Energie Agroforestali (IT) segreteria.aiel@cia.it

AZIENDA AGRICOLA CIP CALOR S.R.L. SOCIETA' AGRICOLA (IT) tecnico@agricoltoricomolecco.it

COMUNITA MONTANA LARIO INTELVESE (IT) info@lariointelvese.eu

COMUNITA MONTANA TRIANGOLO LARIANO (IT)

Comunità Montana Valli del Lario e del Ceresio (IT) ambiente@cmalpilepontine.it

CONSIGLIO NAZIONALE DELLE RICERCHE (IT) spinelli@ivalsa.cnr.it

ERSAF (IT) alessandro.rapella@ersaf.lombardia.it

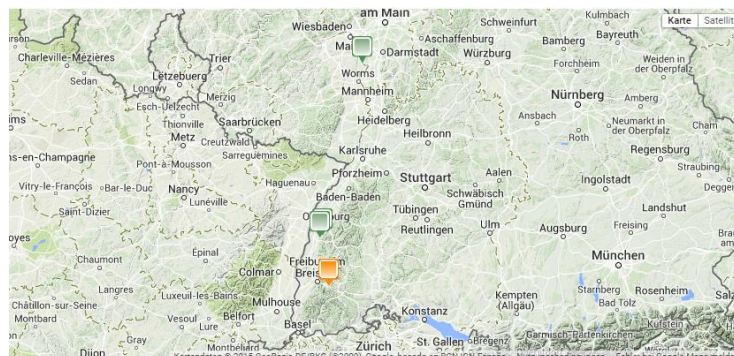
Regione Valle di Muggio Val Mara e Salorino (CH)

UNIVERSITA' DEGLI STUDI DI MILANO-BICOCCA (IT) manuela.tagliavini@unimib.it

Description: The project includes a comprehensive set of actions aimed at enhancing sustainable of local forest resources for energy purposes. A silvicultural pilot (optimized at the level of mechanization, safety and efficiency of operations), will be combined with the implementation of both a local platform for the development of a network of systems biomass and a meeting point between demand and supply of raw material, is four Wood chip plant / small logs. All phases of the project will monitored in order to evaluate the environmental sustainability, identify "best practices" and create an expert system (SSD) specifically for the energy supply chain. The exploitation of local forest resources will be achieved by the development of protocols Certification (PEFC) and the sustainable management of the chain custody.

Il progetto prevede una serie articolata di azioni finalizzate alla valorizzazione sostenibile delle risorse forestali locali a fini energetici. A interventi selvicolturali pilota (ottimizzati a livello di meccanizzazione, sicurezza e efficienza delle operazioni), sarà abbinata la realizzazione sia di una piattaforma locale per lo sviluppo di una rete di impianti a biomasse e punto di incontro tra domanda e offerta di materia prima, sia di quattro impianti a cippato/tronchetti di piccole dimensioni. Tutte le fasi del progetto saranno monitorate al fine di poterne valutare la sostenibilità ambientale, individuare le "best practices" e creare un sistema esperto (SSD) ad hoc per la filiera energetica. La valorizzazione delle risorse forestali locali avverrà anche attraverso lo sviluppo di protocolli di certificazione (PEFC) della gestione sostenibile delle stesse e della catena di custodia.

Caso C.10.19: **Gemeinsam die Energiewende am Oberrhein vorantreiben (DE-FR)**



Source: KEEP database

Acronym: TRION - Transition énergétique – Energiewende

Programme: 2007 - 2013 Upper Rhine (FR-DE)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Climate change and biodiversity; Energy efficiency; Renewable energy

Web: www.interreg-upperrhine.eu/

Total Budget + Funding Total: € 600.000; EU Funding: € 237.500

Duration (dates): 2013-04-01 - 2015-06-30

Lead Partner: Regierungspräsidium Freiburg; D-79100 Freiburg, Germany

Project partners: Conseil Général du Bas-Rhin (FR)

Conseil Général du Haut-Rhin (FR)

Ministerium für Wirtschaft, Klimaschutz, Energie und Landesplanung Rheinland Pfalz (DE)

Région Alsace (FR)

Description: La transition énergétique est une priorité politique partagée en France, en Allemagne et en Suisse. S'appuyant sur son réseau trinational d'acteurs de l'énergie (administrations, clusters, agences de l'énergie, grandes écoles, chambres, entreprises...), TRION propose des actions novatrices sur les thématiques de l'efficacité énergétique et des énergies renouvelables. TRION peut ainsi accélérer la transition énergétique en créant des synergies entre acteurs et en réalisant des actions transfrontalières.

Die Energiewende ist eine gemeinsame politische Priorität in Deutschland, Frankreich und der Schweiz. Dank seines trinationalen Netzwerkes von Energieakteuren (Verwaltungen, Cluster, Energieagenturen, Hochschulen, Kammern, Unternehmen...) bietet TRION innovative Aktionen zu den Themenbereichen Energieeffizienz und erneuerbare Energien an. TRION kann, durch Schaffen von Synergien zwischen den Akteuren und mittels grenzüberschreitender Aktionen, die Energiewende am Oberrhein aktiv vorantreiben.

Caso C.10.20: **Geopotenziale des tieferen Untergrundes im Oberrheingraben (DE-FR)**



Source: KEEP database

Acronym: Geopotenziale **Programme:** 2007 - 2013 Upper Rhine (FR-DE)

Theme: ECONOMIC DEVELOPMENT

Keywords: Renewable energy

Web: www.interreg-upperrhine.eu/

Total Budget + Funding Total: € 2.319.000; EU Funding: € 1.089.500

Duration (dates): 2008-10-01 - 2012-12-31

Lead Partner: Regierungspräsidium Freiburg; D-79100 Freiburg, Germany

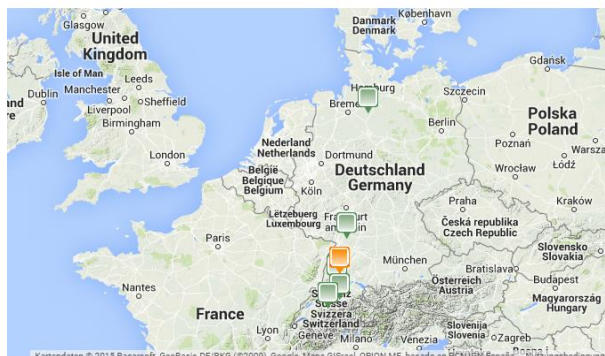
Project partners: BRGM - Service Géologique Régional Alsace –(FR)

Landesamt für Geologie und Bergbau, Rheinland-Pfalz (DE)

Description: L'axe central de ce travail en commun est la mise au point d'un outil permettant de représenter en 3D la structure géologique du Fossé rhénan et de répondre aux questions sur l'utilisation des ressources profondes.

Zentrales Element der Gemeinschaftsarbeit ist die Bereitstellung eines Werkzeugs, mit dem der dreidimensionale Aufbau des tieferen Untergrundes dargestellt und Fragen zur Nutzung der Geopotenziale beantwortet werden können.

Caso C.10.21: **Gesundheitliche Aspekte der energetischen Biomassenutzung (DE-FR)**



Source: KEEP database

Acronym: BIOCOMBUST **Programme:** 2007 - 2013 Upper Rhine (FR-DE)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy Soil and air quality

Web: www.interreg-upperrhine.eu/

Total Budget + Funding Total: € 2.095.414; EU Funding: € 1.047.707

Duration (dates): 2013-01-01 - 2015-05-31

Lead Partner: Albert-Ludwigs-Universität Freiburg

Address: University of Freiburg, Fahrenbergplatz, 79085 Freiburg, Germany

Project partners: Albert-Ludwigs-Universität Freiburg (DE)

ASPA - Association pour la Surveillance et l'Étude de la Pollution Atmosphérique (FR)

Max-Planck-Institut für Chemie (DE)

Universitätsklinikum Freiburg (DE)

Université de Haute-Alsace (FR)

Université de Haute-Alsace (FR)

Description: BIOCOMBUST explore et communique les effets des émissions de la combustion de la biomasse sur la qualité de l'air et la santé dans la région du Rhin Supérieur. Les résultats seront une base pour des applications techniques et économiques pour une amélioration des conditions environnementales et de vie. Ils fourniront une impulsion importante pour le développement durable de l'industrie de la biomasse et l'exploitation des cendres comme matières premières secondaires pour l'industrie du ciment.

BIOCOMBUST untersucht und kommuniziert die Auswirkungen partikelförmiger Emissionen aus Biomasseverbrennung auf Luftqualität und Gesundheit in der Region Oberrhein. Die erwarteten Resultate schaffen Grundlagen für technische und wirtschaftliche Anwendungen, die zur Verbesserung von Umwelt- und Lebensbedingungen führen. Zudem liefern sie wichtige Impulse zum nachhaltigen Ausbau der Biomasse-Branche und zur Verwertung der anfallenden Aschen als sekundäre Rohstoffe für die Zementindustrie.

Caso C.10.22: *Innovationen für eine nachhaltige Biomassennutzung in der Oberrheinregion (DE-FR)*



Source: KEEP database

Acronym: nachhaltige Biomassenutzung **Programme:** 2007 - 2013 Upper Rhine (FR-DE)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy

Web: www.interreg-upperrhine.eu/

Total Budget + Funding Total: € 1.945.862; EU Funding: € 845.431

Duration (dates): 2012-07-01 - 2015-06-30

Lead Partner: KIT - Karlsruher Institut für Technologie, D-76131 Karlsruhe, Germany

Project partners: Albert-Ludwigs-Universität Freiburg (DE)

ASPA - Association pour la Surveillance et l'Étude de la Pollution Atmosphérique (FR)

CNRS - Centre National de la Recherche Scientifique (FR)

CNRS - Centre National de la Recherche Scientifique (FR)

CNRS - Centre National de la Recherche Scientifique –(FR)

Gestion Territoriale de l'eau et d'environnement - GESTE (FR)

KIT - Karlsruher Institut für Technologie (DE)

Ministerium für Bildung, Wissenschaft, Weiterbildung und Kultur, Rheinland-Pfalz (DE)

Ministerium für Wissenschaft, Forschung und Kunst, Baden-Württemberg (DE)

Région Alsace (FR)

Universität Koblenz-Landau (DE)

Université de Haute-Alsace (FR)

Université de Strasbourg (FR)

Université de Strasbourg (FR)

Université de Strasbourg (FR)

Description: L'objectif du projet est de stimuler l'utilisation de la biomasse comme énergie renouvelable et/ou source de matières premières dans le Rhin Supérieur. Le réseau scientifique trinational associé pour ce projet étudie parallèlement tous les aspects de la chaîne de valeur de la biomasse afin d'élaborer divers scénarios évolutifs, d'analyser les impacts potentiels selon des critères de durabilité et d'établir un guide sur l'utilisation durable de la biomasse.

Das Projekt hat die Förderung der Biomassennutzung als erneuerbare Energie- und/oder Rohstoffquelle am Oberrhein zum Ziel. Das im Rahmen dieses Projekts vereinte trinationale wissenschaftliche Netzwerk untersucht parallel alle Bestandteile der Biomassewertschöpfungskette, um Szenarien zu verschiedenen Entwicklungsalternativen zu erstellen, deren potentielle Auswirkungen unter Nachhaltigkeitskriterien zu analysieren, und einen Leitfaden zur nachhaltigen Biomassennutzung zu erstellen.

Caso C.10.23: **Ein GIS-basiertes Planungstool für erneuerbare Energien (DE-FR)**



Source: KEEP database

Acronym: PLAN-EE **Programme:** 2007 - 2013 Upper Rhine (FR-DE)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy

Web: www.interreg-upperrhine.eu/

Total Budget + Funding Total: € 936.354; EU Funding: € 468.177

Duration (dates): 2012-07-01 - 2015-06-30

Lead Partner: Universität Koblenz-Landau; D-76829 Landau, Germany

Project partners: CNRS - Centre National de la Recherche Scientifique (FR)

KIT - Karlsruher Institut für Technologie (DE)

KIT - Karlsruher Institut für Technologie (DE)

Ministerium für Bildung, Wissenschaft, Weiterbildung und Kultur, Rheinland-Pfalz (DE)

Ministerium für Wissenschaft, Forschung und Kunst, Baden-Württemberg (DE)

Région Alsace (FR)

Université de Strasbourg (FR)

Université de Strasbourg (FR)

Description: Le projet « Plan ER » a pour objectif de développer un outil de planification capable d'établir des scénarii d'utilisation idéale des énergies renouvelables dans la région métropolitaine du Rhin Supérieur (RMT). Il intègre l'analyse des potentiels techniques existants, leur l'acceptation par la population ainsi que les aspects socio-économiques liés à leur exploitation. Il aidera ainsi les pouvoirs publics locaux dans leur décision et permettra de faire avancer la transition énergétique dans la région du Rhin supérieur. Le Plan-ER est développé dans les territoires modèles de Strasbourg et du Palatinat du Sud dans le but d'une application future à l'ensemble de la RMT.

Das Projekt „Plan EE“ verfolgt die Entwicklung eines Planungstools, das Szenarien für eine ideale Nutzung der erneuerbaren Energien in der Trinationalen Metropolregion Oberrhein erstellen kann. Es umfasst sowohl die Analyse der bestehenden technischen Potenziale, als auch ihre Akzeptanz durch die Bevölkerung und die sozio-ökonomischen Konsequenzen ihrer Nutzung. Auf diese Weise dient es lokalen Entscheidungsträgern als Entscheidungshilfe und fördert damit die Energiewende im Oberrheingebiet. Plan-EE wird grenzüberschreitend in den Modellgebieten Straßburg und Südpfalz entwickelt und soll zukünftig in der gesamten TMO genutzt werden können.

Caso C.10.24: *Einrichtung eines grenzüberschreitenden Referenzzentrums für erneuerbare Energien und Energieeffizienz im Tal der Attert (BE-LU)*



Source: KEEP database

Acronym: POLENERGIE **Programme:** 2007 - 2013 Greater Region (BE-DE-FR-LU)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Energy efficiency; RES; Institutional cooperation & cooperation networks

Web: www.polenergie.eu/

Total Budget + Funding Total: € 482.390; EU Funding: € 241.195

Duration (dates): 2008-07-02 - 2012-06-30

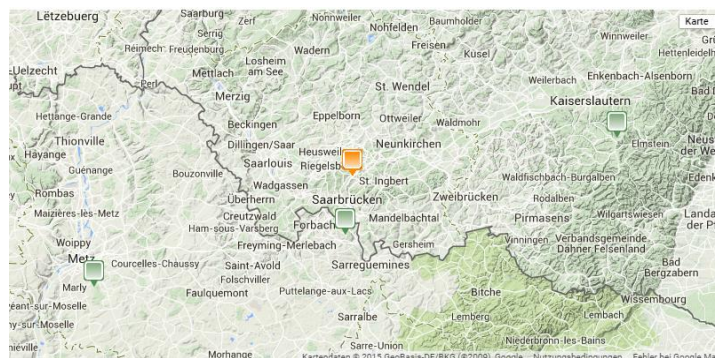
Lead Partner: Au Pays de l'Attert; Voie de la Liberté 107, 6717 Attert, Belgium

Project partners: Réidener Energiatelier (Luxembourg)

Description: Das Ziel dieses Projektes besteht in der Einrichtung eines grenzüberschreitenden Referenzzentrums für erneuerbare Energien und Energieeffizienz im Tal der Attert durch:

- Grenzüberschreitende Bestandsaufnahme bestehender Projekte im Bereich erneuerbarer Energien
- pädagogische Aufbereitung beispielhafter Projekte in der Region
- Einrichtung eines Energieberatungsdiensts für Neubauprojekte und Altbausanierungen
- Gründung eines Hauses der Energie

Caso C.10.25: **Grenzüberschreitendes Netzwerk Energieeffizienz / Erneuerbare Energien (DE-FR)**



Source: KEEP database

Acronym: ENEFF **Programme:** 2007 - 2013 Greater Region (BE-DE-FR-LU)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Energy efficiency Renewable energy Knowledge and technology transfer

Web: www.eneff-interreg.eu/

Total Budget + Funding Total: € 605.000; EU Funding: € 302.500

Duration (dates): 2009-07-01 - 2012-12-31

Lead Partner: ARGE Solar e.V.; D-66115 Saarbrücken, Germany

Project partners: Conseil Général de la Moselle Hôtel du Département (FR)

EffizienzOffensive Energie Rheinland-Pfalz e.V. (EOR) (DE)

Ministerium für Umwelt, Energie und Verkehr des Saarlandes (DE)

Description: Ziel dieses Projektes ist es die Trennwirkung der Grenze aufzuheben im Bereich der erneuerbaren Energien. Hierzu sollen die vorhandenen Akteure in die Lage versetzt werden, Standards, Praxis, Gesetzgebungen, Fördermöglichkeiten, Techniken und Innovationen, die Angebotsstruktur seitens der KMU und den Bedarf innerhalb eines durchgehenden grenzüberschreitenden Raums besser kennenzulernen und diese Kompetenz im Sinne eines besseren Angebots an die Bevölkerung und die Verwaltung zu valorisieren bzw. Die beiderseits der Grenze vorhandenen KMU, die entsprechende Produkte und Dienstleistungen anbieten, zu unterstützen. Ein grenzüberschreitend durchgehender Markt wird größer und lukrativer sein. Innovationen sollen grenzüberschreitend besser und komplementär genutzt werden.

Caso C.10.26: *Realisierung einer grenzüberschreitenden Pilotanlage für die energetische Verwertung von Grünschnitt mittels einer Vergärung (DE-FR)*



Source: KEEP database

Acronym: METHAVOS **Programme:** 2007 - 2013 Greater Region (BE-DE-FR-LU)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Green technologies Waste and pollution Renewable energy

Web: www.interreg-4agr.eu

Total Budget + Funding Total: € 2.930.000; EU Funding: € 879.000

Duration (dates): 2014-03-01 - 2014-12-31

Lead Partner: SYDEME; 12 Place Robert Schuman, 57600 Forbach, France

Project partners: Entsorgungsverband Saar (DE)

Description: Das Projekt METHAVOS möchte eine technische Piloteinheit entwickeln, die aus Grünschnitt aus den anliegenden grenzüberschreitenden Gebieten Energie erzeugen soll. Diese Innovation wird die grenzüberschreitende Kooperation der Projektpartner verstärken und stellt einen beachtlichen Fortschritt im Bereich der nachhaltigen Energieerzeugung dar. Das betroffene Gebiet schließt die Biosphären des Bliesgau und des Pfälzerwalds-Vogesen mit ein.

Caso C.10.27: **FORMABOIS (BE-FR)**

Acronym: FORMABOIS **Programme:** 2007 - 2013 France - Wallonia - Flanders (BE-FR)

Theme: ECONOMIC DEVELOPMENT

Keywords: Clustering and economic cooperation; Education and training; Renewable energy

Web: www.formation-wallonie-bois.be

Total Budget + Funding Total: € 730.902; EU Funding: € 347.498

Duration (dates): 2009-12-01 - 2014-12-31

Lead Partner: Forem Wallonie Bois - Centre de Compétences
Boulevard Joseph Tirou 140, 6000 Charleroi, Belgium
yves.therer@forem.be

Project partners: Centre de Formation Professionnelle et de Promotion Agricole Saint-Laurent – Centre constitutif de l'EPLEFPA (FR) cfppa.charleville@educagri.fr

Description: The partners create a virtual resource and monitoring centre to keep timber sector professionals posted on standards, regulations and technological innovations.

In addition, they develop a short training programme in the field of forestry, wood construction, renewable energies and quality/security/environment.

Expected Results: The project also aims to qualify jobseekers for short-staffed or emerging professions in the timber sector to meet the skill needs of companies in the forestry and wood construction sector.

Caso C.10.28: **SUSTAINABLE ENERGY MANAGEMENT (BE-FR)**

Acronym: SUSTAINABLE ENERGY MANAGEMENT

Programme: 2007 - 2013 France - Wallonia - Flanders (BE-FR)

Theme: QUALITY OF LIFE

Keywords: Education and training; Energy efficiency; Renewable energy

Web: www.interreg-fwvl.eu/fr/prj/29.html

Total Budget + Funding Total: € 169.675; EU Funding: € 90.125

Duration (dates): 2009-01-01 - 2012-12-31

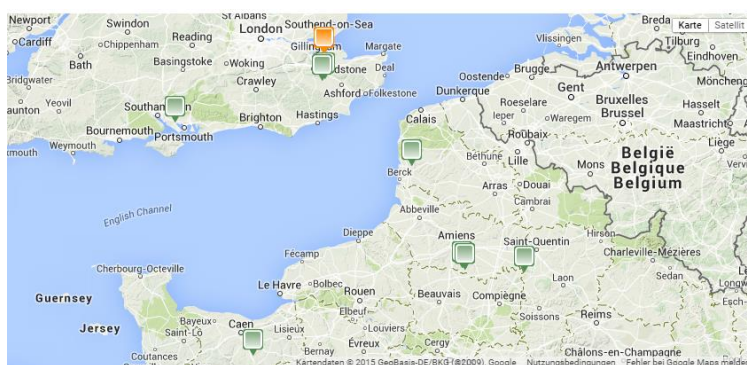
Lead Partner: KSOO vzw campus VTi; Stuiverstraat 108, 8400 Ostend, Belgium
ronny.callemin@vtioostende.be

Project partners: Lycée de l'Europe (FR) ce.0590072h@ac-lille.fr

Description: Two technical schools are partners in this project. They are situated in maritime areas with polluting, old industries. The area is thus subject to important energetic and environmental challenges. As a result, awareness-raising and training of students, future technicians and citizens of the Westhoek and Flandre maritime are key in this project.

Results: Students from both schools succeeded in assembling both the photovoltaic systems and the wind mills and making them operational. In addition, the students and teachers regularly crossed the border to help each other build a passive house on the playground in Oostende and of a Mediterranean interior garden with autonomous lighting and water garden at the Dunkerque school. All achievements were presented to the general public at the open house days. For these days, in addition to the own visual aidsto present the achievements, demo equipment was used, made available by the EOS, the autonomous municipal company for energy savings of the city of Oostende.

Caso C.10.29: **Ecotec 21 (FR-UK)**



Source: KEEP database

Acronym: Ecotec 21 **Programme:** 2007 - 2013 France (Channel) - England (FR-UK)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy Energy efficiency Agriculture and fisheries and forestry

Web: <http://interreg4a-manche.eu>

Total Budget + Funding Total: € 4.261.405; EU Funding: € 2.130.703

Duration (dates): 2010-07-01 - 2015-06-30

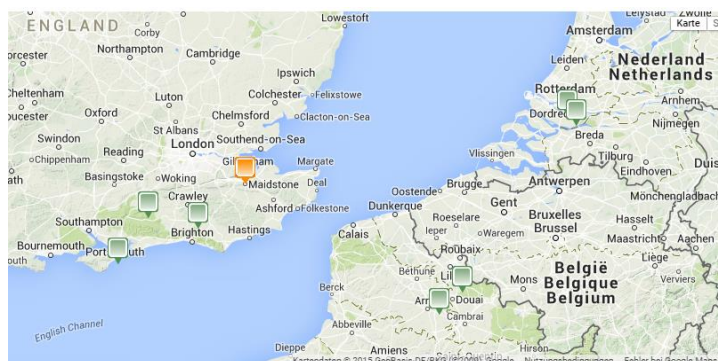
Lead Partner: Medway Council; Chatham, Medway ME4 4TR, UK
solene.Ferreira@medway.gov.uk

Project partners: Universite de Picardie Jules-Verne (FR)
 Remade South East (UK)
 University of Greenwich (UK)
 Amiens Metropole (FR)
 Hampshire County Council (UK)
 Habitat du Littoral (FR)
 Université de Caen Basse-Normandie (FR)
 Chambre d'Agriculture de la Somme (FR)
 Agence de Développement et d'Urbanisme du Grand Amienois (FR)
 Agro-transfert ressources et territoires (FR)

Description: This project seeks to improve energy efficiency by promoting cogeneration from biomass or biofuel. This highly energy-efficient technology also produces electricity and exploitable heat simultaneously. Cogeneration engines may be powered by several types of combustible matter. Ecotec 21 intends to test these – particularly glycerol as well as waste from the agricultural and wood industries – by installing engines in various existing infrastructures to study the resulting energy benefit. It is also planning on facilitating these installations by listing the related procedures and establishing models (installation authorisation, supply contract, energy management, etc.). Lastly, it is going to raise users', inhabitants' and decision-makers' awareness.

Expected Results: Studying and promoting the benefits of combined heat and power (CHP) technology from biomass or bio-fuel to save energy - compared with traditional heating systems - is at the core of the ECOTEC 21 project. Cogeneration is already in use in some European countries, yet to a lesser extent in the United Kingdom and in France, hence the need for the two countries to work together on that topic. Tools compiling legal, contractual and logistical requirements for implementing the CHP technology will be created for French and English decision-makers.

Caso C.10.30: **Environmental Market and Innovation Development (FR-UK)**



Source: KEEP database

Acronym: ECOMIND **Programme:** 2007 - 2013 2 SEAS (FR-UK-BE-NL)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: SME and entrepreneurship; Renewable energy

Web: www.interreg4a-2mers.eu/en

Total Budget + Funding Total: € 7.057.117; EU Funding: € 3.528.558

Duration (dates): 2008-01-02 - 2011-10-31

Lead Partner: Business Support Kent Community Interest Company
Kings Hill, West Malling, Kent ME19 4UY, UK
adrian.champney@bsk-cic.co.uk

Project partners:

- CD2E (FR)
- CCI Grand Lille (FR)
- Enviu - Innovators in Sustainability (NL)
- EnviroBusiness South East Ltd (UK)
- Wessex Enterprise (UK)
- The Centre for Sustainable Design, University for the Creative Arts (UK)
- Delft University of Technology (NL)

Description: The overall aim of Eco-Mind is to support SMEs seeking to develop innovative products and services in taking full advantage of the growing market for more environmentally acceptable products.

To achieve this, Eco-mind partners will address the specific support needs of over 270 SMEs within the crossborder area covered by the project partners, and extend their reach to a further 600 through workshops, clinics, exhibitions and other crossborder activities. By linking up their expertise across the 2 Seas area, SMEs benefit from more development opportunities.

Encouraging the public and in particular these SMEs to make full use of renewable energies is an important aspect of the project. The project will therefore profile the companies with most environmental and economic impact, analyse the needs of eco-entreprises, define market opportunities, constitute a team of eco-innovation support specialists from across the 2 Seas area, deliver a customer support programme, and last but not least, make policy recommendations to regional and national authorities concerning future eco-innovation support priorities, the suitability of existing support provision, and how "gaps" in provision might be addressed.

Results: What were the key results of the project?

- 1,087 individuals profiled
- 798 diagnostics carried out
- 234 questionnaires carried out
- 295 companies received customised intensive support from the partnership.
- 2 partners (CD2E & BSK-cic) generated 4 reports on eco-innovation, cluster & IP
- Enviu and Delft TU assisted 21 entrepreneurs
- CD2E and CCIGL guided 103 SMEs

- BSK-CIC, CfSD, EnviroBusiness and WSX offered tailored services to 171 enterprises.
- 6 case studies, 1 virtual map, 3 studies and 6 SME videos created.
- 122 events with 3,716 participants and sponsorship of 124 individuals to attend events outside their country
- 10 videos (viewed 11,450 times), 6 case studies, website information (32,730 online references), events promotion flyers distributed, presentations delivered, 1 virtual eco-innovation map & reference guides created.
- 1 online tool to qualify eco-enterprises was created by CD2E
- Winners of eco-innovation award: VFA (NL) in 2010, Kypple (FR) & Envisan in 2009
- Best Start-Up KIEBA award: Aquaread (UK)
- 1 company saved an estimated total of 2T of waste. 5 companies saved an estimated 306T of CO2 and 28,000m2 of water.

Did all partners and territories benefit from the results?

Target groups: The main impact of EcoMind in the local region has been on the partners, through increased practical knowledge on supporting SMEs and better understanding of the local support network.

Beneficiaries: In the Netherlands, 62 young entrepreneurs, 285 participants via 11 events and 18 individuals were supported to participate in events outside the Netherlands. For the local SMEs the impact has been strengthened through business collaboration and access to specialist knowledge.

In France, 453 local businesses were profiled to understand their requirements and 103 local entrepreneurs received intensive assistance. In addition, businesses and 3000 visitors benefitted from 73 events organised by local partners. 26 individuals were supported at events outside France.

In the South of England, 572 companies were contacted to ascertain needs, 100 companies potential buyers of eco-innovative products were surveyed, 171 enterprises received intensive assistance. Small companies benefitted from 38 specialist events, attracting 530 visitors. Moreover, 80 individuals were sponsored to attend event outside England.

What were the effects / outcomes for the territories involved?

The regions have benefitted from increased skills on eco-innovation, increase internationalisation, improved carbon footprint and the emergence of local innovative leaders.

Clusters in France have provided long-term benefit for SMEs and for the region by supporting innovative SMEs, access to funds, new jobs, and solutions to reduce environmental impacts and increased competitiveness and skills.

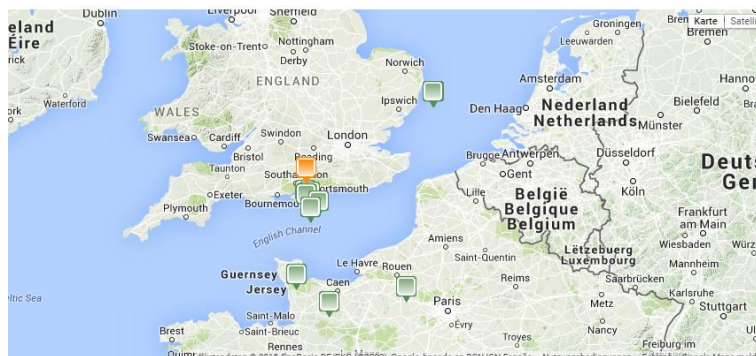
In the UK, the main outcomes have been an increase in green knowledge; carbon reductions and ongoing networks - for example the design network.

In the Netherlands, there is a strengthened support network for new sustainable innovators.

Finally, most of the partners are still working together either directly via the FUSION project.

This project contributes to establishing a complete network around eco-innovation in the region, increasing its attractiveness for green investors and support its economy via green skilled job creation, local carbon reduction, new technologies and greening of supply chain.

Caso C.10.31: **Développement de compétences européennes environnementales et maritimes (FR-UK)**



Source: KEEP database

Acronym: Beems **Programme:** 2007 - 2013 France (Channel) - England (FR-UK)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy; Costal management & maritime issues; Education & training

Web: <http://77interreg4a-manche.eu>

Total Budget + Funding Total: € 2.665.027; EU Funding: € 1.332.514

Duration (dates): 2011-09-30 - 2014-09-30

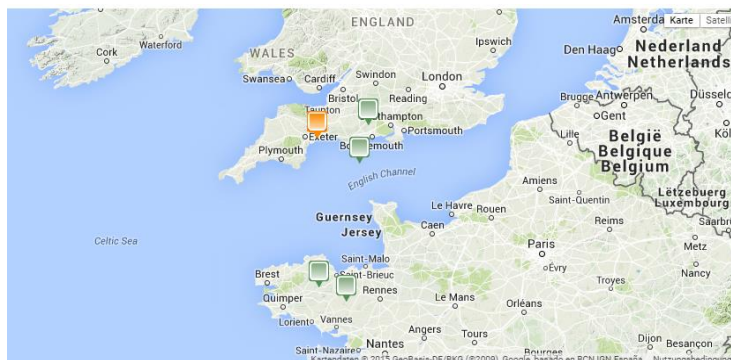
Lead Partner: Southampton City Council
Marland House, Civic Centre Road, Southampton SO14 7PQ, UK
elizabeth.smith@southampton.gov.uk

Project partners: Portsmouth City Council (UK)
Isle of Wight Council (UK)
Waveney District Council (UK)
Southampton Solent University (UK)
Apprenticeship training ltd (UK)
Lowestoft college (UK)
Marine East limited (UK)
Region Haute-Normandie (FR)
Region Basse-Normandie (FR)
Maison de l'emploi et de la formation du Cotentin (FR)

Description: The aim of the Building European Environmental & Maritime Skills (BEEMS) project is to stimulate the growth and development of environmental and maritime skills within the offshore wind energy industry. In order to improve the economic viability of the renewable marine energies sector, and more particularly the offshore wind energy sector, the BEEMS project seeks to adapt those skills that are already available in companies to the needs of the offshore wind industry and to develop training programmes in this field.

Expected Results: There are several offshore wind farms on the UK side of the Channel, and similar sites are planned on the French side. 5 Interreg projects are addressing this issue in a multi-disciplinary way. BEEMS is promoting MRE skills training to launch a unique and recognised training certificate, whilst providing businesses with information and advice on how to diversify their involvement in the offshore wind industry.

Caso C.10.32: **Sustainable Energy across the common space (FR-UK)**



Source: KEEP database

Acronym: SEACS **Programme:** 2007 - 2013 France (Channel) - England (FR-UK)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Climate change and biodiversity; Energy efficiency; Renewable energy

Web: <http://interreg4a-manche.eu>

Total Budget + Funding Total: € 2.157.782; EU Funding: € 1.078.891

Duration (dates): 2008-01-01 - 2014-09-28

Lead Partner: Devon County Council; Topsham Road, Exeter, Devon EX2, UK
pauline.warner@devon.gov.uk

Project partners: Dorset County Council (UK) p.west@dorset.gov.uk
 Wiltshire Council (UK) catherine.dixon@wiltshire.gov.uk
 General council of the Côtes d'Armor (FR) COLLOBERTRONAN@cg22.fr
 Lannion Trégor Agglomération (FR) isabelle.clearch@lannion-tregor.com

Description: Objectif général: Le projet SEACS a pour but de promouvoir, à travers l'espace Manche, le développement de l'efficacité énergétique et des énergies renouvelables de manière intégrée, pour réduire les émissions de carbone, créer des opportunités économiques et une meilleure cohésion sociale.

Le projet vise ainsi à construire un réseau transmanche d'ambassadeurs Climat/Energie et à développer en commun des outils et méthodes adaptés au contexte local, afin que les communautés deviennent les forces motrices pour un changement dans la consommation d'énergie. SEACS propose également de réaliser des projets locaux d'efficacité énergétique, en partenariat avec les habitants et les associations locales, afin d'identifier les meilleures pratiques qui aboutiront à une utilisation durable de l'énergie.

Principales actions:

- Création d'un réseau d'ambassadeurs Climat/Energie :- Recrutement de 6 ambassadeurs Climat/Energie.
- Organisation d'ateliers techniques pour les ambassadeurs Climat/Energie.
- Plans d'action Climat et Energie pour les Citoyens et les Communautés.
- Création de plans d'action énergie et climat pour des communautés locales et les citoyens.
- Audit énergétique/études de faisabilité pour les mesures d'efficacité et technologies énergétiques.
- Identification des meilleures méthodes d'engagement des communautés locales ; identification des études de cas d'efficacité énergétique et d'énergie renouvelables sur le terrain.
- Plans d'action Climat et Energie pour les bâtiments publics et écoles.
- Développement d'un programme d'ateliers, d'expositions et de matériaux pour la sensibilisation à l'énergie et au climat pour les écoles et les bâtiments publics.
- Mise en place d'un audit énergétique afin d'évaluer l'efficacité des mesures.
- Développement de projets scolaires transnationaux.

Main objective: The SEACS project aims to promote, through the Channel area, the integrated development of energy efficiency and renewable energy, in order to reduce carbon emissions,

create economic opportunities and achieve social cohesion. The project will build a cross-channel network of climate and energy ambassadors and jointly develop methods and tools adapted to the local context to empower communities to become local driving forces in implementing change in energy use. SEACS also offers to realize energy efficiency local projects, in partnership with citizens and local charities, to identify best practices leading to a sustainable energy use.

Main actions:

- Creation of a climate and energy ambassadors network:
- Recruitment of 6 climate and energy ambassadors
- Organisation of technical workshops for the ambassadors.
- Climate and energy action planning for citizens and communities
- Creation of climate and energy action plans for local communities and citizens
- Energy auditing/feasibility studies to quantify efficiency and technologies
- Identification of the best methods of community engagement; identification of case studies of energy efficiency and renewable energy in practice.
- Climate and Energy Action Planning for Public Buildings and Schools
- Development of a climate and energy awareness programme of workshops, exhibitions, materials for schools and public buildings
- Energy auditing to evaluate the effectiveness of measures
- Development of cross-border school exchanges

Caso C.10.33: **OFELIA (FR-UK)**



Source: KEEP database

Acronym: OFELIA **Programme:** 2007 - 2013 France (Channel) - England (FR-UK)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Coastal management and maritime issues Managing natural and man-made threats, risk management Renewable energy

Web: <http://interreg4a-manche.eu>

Total Budget + Funding Total: € 363.889; EU Funding: € 727.777

Duration (dates): 2012-10-01 - 2015-06-30

Lead Partner: University of Plymouth; The School Of Marine Science & Engineering
University of Plymouth Student Union
Plymouth University, Drake Circus, Plymouth PL4 8AA, UK
vanesa.magar@plymouth.ac.uk

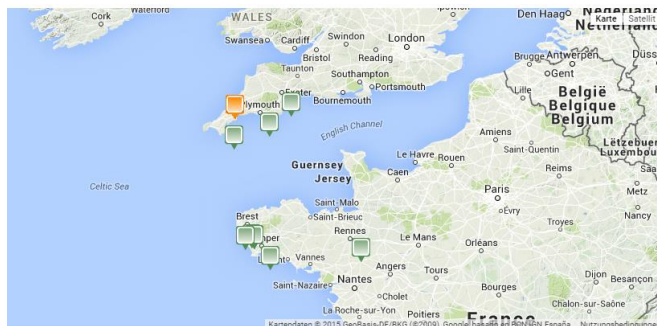
Project partners: Université du Havre (FR)

Université de Caen Basse-Normandie (FR)

Description: This project aims to study the environmental impact (both on the sea and on the seabed) caused by offshore wind farm foundations that are in place, or planned, within the Channel region.

Expected Results: There are several offshore wind farms on the UK side of the Channel, and similar sites are planned on the French side. 5 Interreg projects are addressing this issue in a multi-disciplinary way. OFELIA is involving French and UK researchers to analyse the environmental impact of offshore wind farms on the seabed.

Caso C.10.34: **Marine Energy in Far Peripheral & Island Communities (FR-UK)**



Source: KEEP database

Acronym: MERIFIC **Programme:** 2007 - 2013 France (Channel) - England (FR-UK)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy; Costal management & maritime issues

Web: www.merific.eu

Total Budget + Funding Total: € 4.656.034; EU Funding: € 2.328.017

Duration (dates): 2009-01-01 - 2014-06-30

Lead Partner: Cornwall Council; New County Hall, Treyew Road, Truro, Cornwall TR1 3AY, UK
nwallet@cornwall.gov.uk

Project partners: University of Exeter (UK) P.M.Connor@exeter.ac.uk
 University of Plymouth (UK) Deborah.greaves@plymouth.ac.uk
 General council of the Finistère (FR) Emmanuel.quere@cq29.fr
 The Iroise Marine Park (FR) thierry.canteri@aires-marines.fr
 The Pôle Mer Bretagne (FR) stephane.riou@pole-mer-bretagne.com
 Technopole Brest-Iroise (FR) eric.vandenbroucke@tech-brest-iroise.fr
 Ifremer - French Resarch Institute for Exploitation of the Sea (FR)
Christophe.Maisondieu@ifremer.fr
 Brittany Economic Agency (FR) jj.lenorment@agence-eco-bretagne.com
 Cornwall Marine Network (UK) Tim.Bowerbank@cornwallmarine.net

Description: Objectif général: MERIFIC a pour objectif de faire progresser l'utilisation de l'énergie marine sur les communautés insulaires du Parc Marin d'Iroise (Finistère) et des Iles Scilly (Cornouailles britanniques). Les partenaires du projet identifieront les opportunités et les problèmes spécifiques auxquels sont confrontées les communautés insulaires et périphériques dans l'exploitation des ressources d'énergies marines renouvelables, avec pour objectif de développer des boîtes à outils et des ressources utilisables par des communautés similaires, situées sur la zone éligible du programme et au-delà.

Principales actions:

- **Appui technologique:**
 - Développement et partage de bonnes pratiques pour la cartographie et la mesure des ressources marémotrices et houlomotrices.
 - Analyse des documents existants sur les impacts environnementaux des technologies utilisant l'énergie des vagues et d'autres énergies marines renouvelables.
 - Transfert et développement de compétences sur les évaluations environnementales.
 - Etude des questions liées à la création et à l'optimisation des systèmes d'amarrage pour les installations marines.
 - Réalisation de rapports de bonnes pratiques sur les problèmes liés aux installations, à l'exploitation et à la maintenance des équipements d'énergies marines.
- **Politiques publiques et régulation :**
 - Etude des politiques publiques et des cadres réglementaires régissant les énergies marines en vigueur en Cornouailles et en Finistère.

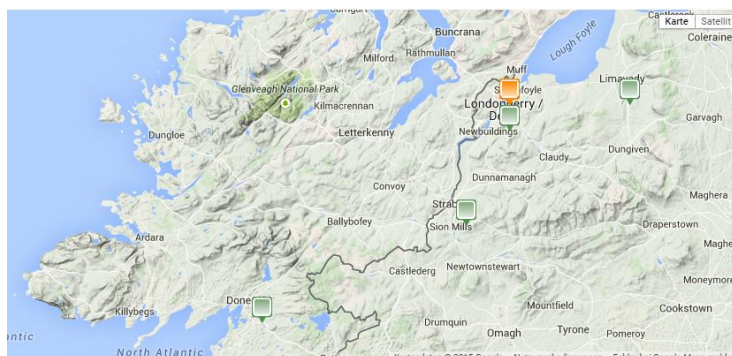
- Evaluation des différents outils de soutien au déploiement, à l'innovation et à l'investissement.
- Réalisation d'un rapport sur la gestion des risques et la sécurité.
- *Développement économique durable :*
- Identification de bonnes pratiques dans le domaine du soutien à la chaîne de production du secteur des énergies marines.
- Identification et développement de bonnes pratiques concernant les passations de marché, pour maximiser les opportunités pour les entreprises locales de participer au développement du secteur des énergies marines.
- Identification des compétences existantes et des besoins futurs pour soutenir le développement des énergies marines renouvelables dans les deux régions.
- Développement d'une structure transférable de développement économique durable.
- Identification des besoins logistiques des ports pour déployer des énergies marines renouvelables.
- Acceptabilité sociale et implication de la société civile.
- Synthèse et partage des bonnes pratiques/ approches existantes.
- Mise en place d'actions pilotes innovantes.

Main objective: The proposed project will seek to advance the adoption of marine energy on the island communities of le Parc Naturel Marin d'Iroise (Finistère) and the Isles of Scilly (Cornwall). The partners will identify specific opportunities and issues faced by peripheral and island communities in exploiting marine renewable energy resources. Their aim is to develop tool kits and resources for use by other similar communities, located on the programme eligible areas and beyond.

Main actions:

- *Technology Support:*
- Development and exchanges of best practices for the cartography and measurements of tidal and wave power resources.
- Review of current literature regarding environmental impacts technologies using wave energy or other marine renewable energies.
- Transfer and development of skills on environmental assessment
- Study on the creation and optimization of anchorage systems for marine devices
- Report on best practices associated to installation procedures, exploitation and maintenance requirements of marine energy devices.
- *Public policies and regulation*
- Oversight of current policy and regulatory frameworks applicable to marine energy in Cornwall and Finistère
- Assessment of different support instruments to encourage deployment, innovation & investment
- Report on state of the art practices in safety risk management
- *Sustainable economic development*
- Identification of best practice in development of supply chains for marine renewable energy
- Identification and development of procurement code to increase local businesses opportunities and participate to the marine energy sector development
- Identification of the key skills capacity/needs required to support marine renewable developments in both regions
- Development of develop a transferable framework for sustainable economic development
- Identification of the regional logistical needs of ports in the deployment of marine renewable energies.
- Stockholder engagement
- Review and sharing of best practice and approaches
- Developing news methods.

Expected Results: There are several offshore wind farms on the UK side of the Channel, and similar sites are planned on the French side. 5 Interreg projects are addressing this issue in a multi-disciplinary way. MERIFIC is working on the opportunities and issues faced by peripheral and island communities in exploiting MRE. A toolkit – including technology support, policy issues and regulatory framework, supply chain, stakeholder engagement and public awareness - will be created for the use of decision-makers in the France (Channel) – England area.

Caso C.10.35: ***The Renewable Energy Network (REN-NET) (IE-UK)***

Source: KEEP database

Acronym: REN-NET**Programme:** 2007 - 2013 Northern Ireland - Border Region of Ireland - Western Scotland**Theme:** ECONOMIC DEVELOPMENT**Keywords:** Renewable energy; Clustering and economic cooperation**Web:** www.seupb.eu/programmes2007-2013/overview.aspx**Total Budget + Funding Total:** € 390.047; EU Funding: € 292.535**Duration** (dates): 2012-03-01 - 2015-05-31**Lead Partner:** NWRCBG - North West Region Cross Border Group
98 Strand Rd, Londonderry, Derry BT48 7NN, UK
eamon.molloy@derrycity.gov.uk**Project partners:**
Derry City Council (UK)
Donegal County Council (IE)
Limavady Borough Council (UK)
Magherafelt District Council (UK)
Strabane District Council (IE)**Description:** The Renewable Energy Network (REN NET) aims to establish a formalized business network for small businesses working in the renewable energy and green economy fields, with the aim of increasing vitality and profitability for those companies. The initiative shall establish a local network in each of the partner areas, these individual networks shall then feed to a larger regional network at North West cross border level. REN-NET shall seek to feed in and be additional to work carried out to date on networking in Donegal by the County Enterprise Board and in Northern Ireland by Invest Northern Ireland.

Caso C.10.36: **WIN-IPT (Ireland-Wales)**



Source: KEEP database

Acronym: WIN-IPT **Programme:** 2007 - 2013 Ireland - Wales (UK-IE)

Theme: ECONOMIC DEVELOPMENT

Keywords: Renewable energy, Clustering and economic cooperation

Web: www.winippt.eu/

Total Budget + Funding Total: € 1.775.418; EU Funding: € 1.207.012

Duration (dates): 2012-01-01 - 2014-12-31

Lead Partner: Waterford Institute of Technology; Waterford, Co. Kilkenny, Ireland
jomahony@wit.ie

Project partners: Swansea University (Wales)
 Bangor University (Wales)

Description: WIN-IPT will:

- Establish a Wales Ireland Network for Innovative Photovoltaic Technologies promoting the development of the 'ideas economy' and enhancing business opportunities for SMEs in the cross border region. The network will bring industry leaders local authorities and academic experts together to expand the RTDI base in the cross-border region.
- Deliver direct R&D assistance and consultancy services to 30 SMEs operating in the cross border region over 36 months.
- Support innovation and enterprise by establishing working partnerships between SMEs, Local Authorities and HEIs to develop the PV industry and the low carbon economy in the cross border region.
- Develop the skills economy through the provision of placement opportunities for undergraduate students at partner sites (Industry and Academic).
- Develop the skills economy through the provision of R&D training to junior researchers.
- Specific products will be developed, self-powered lighting and self-powered wireless sensors. Demonstration trials of new technologies at LA sites will lead to closer collaboration between SMEs and LAs & contribute to national goals of reducing CO2 emissions from buildings & the creation of an interregional hub of expertise.
- Improvements in PV manufacturing processes to improve the yield & performance of 3rd generation PV devices leading to new products for outdoor PV installations. This technology is particularly suited to the cross border climate
- Facilitate secondments and R&D training to expand the skills available to cross border SMEs improving their competitiveness. Placements are designed to promote the industry to undergraduates offering them new potential career choices.
- Develop innovative PV products in partnership with 6 SMEs.
- Improve PV manufacturing processes through direct intervention with 2 SMEs.
- Provide secondment opportunities for WIN-IPT staff at partner sites to aid knowledge transfer.
- The B&I forum will develop networking opportunities between cross border SMEs, create new opportunities, new business models, reduce PV installation costs & create employment by increased deployment of PV.

Caso C.10.37: **BioMara- Sustainable Fuels from Marine Biomass (IE-UK)**



Source: KEEP database

Acronym: BioMara

Programme: 2007 - 2013 Northern Ireland - Border Region of Ireland - Western Scotland

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Green technologies; Renewable energy

Web: www.seupb.eu/programmes2007-2013/overview.aspx

Total Budget + Funding Total: € 4.874.414; EU Funding: € 4.497.059

Duration (dates): 2009-01-05 - 2012-12-30

Lead Partner: Scottish Association for Marine Science (SAMS)

Address: Dunbeg, Argyll and Bute PA37 1QA, UK

Email: michele.stanley@sams.ac.uk

Project partners: Dundalk Institute of Technology (IE)

University of Ulster (UK)

University of Strathclyde (UK)

Research Institute of Technology Sligo (IE)

The Questor Centre (UK)

Description: BioMara will demonstrate the feasibility and viability of producing mari-fuels from marine biomass derived from both macroalgal (seaweeds) and microalgal (single celled plants) sources as an alternative to agri-fuels production from terrestrial land plants: in particular targeting specific questions designed to build on the current knowledge-base available within this unique set of geographical regions. This will not only provide the area with access to a more economically and environmentally sustainable local renewable fuel source, but also help service local public transport infrastructure and build on the regions' technology-base. At the same time, development of mari-fuels will help to support traditional ways of life in remoter communities by providing locally produced, relatively cheap, low impact fuel.

Caso C.10.38: ***Irish-Scottish Links on Energy Study (IE-UK)***



Source: KEEP database

Acronym: **Programme:** 2007 - 2013 Northern Ireland - Border Region of Ireland - Western Scotland

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy; Evaluation systems and results

Web: www.seupb.eu/programmes2007-2013/overview.aspx

Total Budget + Funding Total: € 1.355.801; EU Funding: € 1.109.291

Duration (dates): 2009-07-01 - 2012-12-31

Lead Partner: Energy & Telecommunications Division, The Scottish Government
Atlantic Qy, Glasgow, Glasgow City G2 8JH, UK
patrick.mcwilliams@scotland.gsi.gov.uk

Project partners: Department of Communications, Marine and Natural Resources -- [Ireland]

The Northern Ireland Executive Department of Enterprise, Trade and Investment -- [United Kingdom]

Description: The project will examine the feasibility of the construction of an offshore electricity transmission network linking potential offshore sites for the generation of renewable energy in the coastal waters of Ireland, Northern Ireland and Western Scotland. The feasibility study will develop a business case for the construction of such a grid and will examine the following aspects: - technology and infrastructure; environment and planning; regulatory and finance; and construction and deployment. The project will help make the investment case for a major infrastructure project in the Programme Area and could lead to long term benefit to the three jurisdictions in terms of capitalising on their renewable energy potential. The study will also involve close co-operation with the energy industry and other stakeholders involved in grid transmission systems and renewable energy.

Expected Results:

Caso C.10.39: **Waterstofregio (BE-NL)**



Source: KEEP database

Acronym: Waterstofregio
Programme: 2007 - 2013 Border Region Flanders - Netherlands (BE-NL)
Theme: ENVIRONMENT and CLIMATE CHANGE
Keywords: Renewable energy; Infrastructure; Education and training
Web: www.waterstofnet.eu
Total Budget + Funding Total: € 14.153.457; EU Funding: € 3.000.000
Duration (dates): 2009-06-01 - 2012-05-30
Lead Partner: Brabantse Ontwikkelings Maatschappij
 Goirlese Weg 15, 5026 PB Tilburg, The Netherlands
evanoorschot@bom.nl

Project partners: Avans Hogeschool –(NL) hmm.dewerd@avans.nl
 Universiteit Gent, Power-Link (BE) eu-cel@ugent.be
 WaterstofNet (NL) pgosselink@bom.nl
 ECN (NL) hoff@ecn.nl
 Katholieke Hogeschool Kempen (BE) maurice.vaes@khk.be
 Fontys Hogeschool (NL) a.vissers@fontys.nl
 Karel de Grote Hogeschool (BE) jan.trommelmans@kdg.be
 Hogeschool Zeeland (NL) adri.de.buck@hz.nl
 Stichting Hogeschool Zuyd (NL) c.rosmalen@hszuyd.nl
 Katholieke Hogeschool Limburg (BE) willy.indeherge@khlilim.be
 Solvay N.V. (BE) jean-marc.chamberland@solvay.com
 Interuniversitair Micro-Electronica Centrum vzw (BE) Gilbert.Declerck@imec.be
 Vlaams Samenwerkingsverband Waterstof en Brandstofcellen vzw (VSWB vzw) (BE)
jan.vliegen@eu.umicore.com
 SPK vzw (BE) bart.wuyts@spk.be
 Universiteit Gent (BE) EU-cel@UGent.be

Description: De verschillende projectpartners slaan de handen in elkaar om de Grensregio Vlaanderen-Nederland uit te bouwen tot een Europese topregio op het vlak van waterstof.

Deze uitbouw zal gebeuren door: clustering/coördinatie van waterstofgerelateerde activiteiten binnen de regio op basis van de regionale kansen en Europese ambities;

concrete realisatie van demonstratieprojecten van waterstofsysteemen in maritieme, logistieke toepassingen en binnen interstedelijk transport;

aanleg van enkele waterstoftankstations om een verdere uitbouw van de waterstofinfrastructuur mogelijk te maken;

opstarten van innovatieprojecten met regionale spelers, die geïmplementeerd kunnen worden in de demonstratieprojecten;

kennisopbouw door het opzetten van een onderwijsprogramma rond waterstof voor het hoger onderwijs.

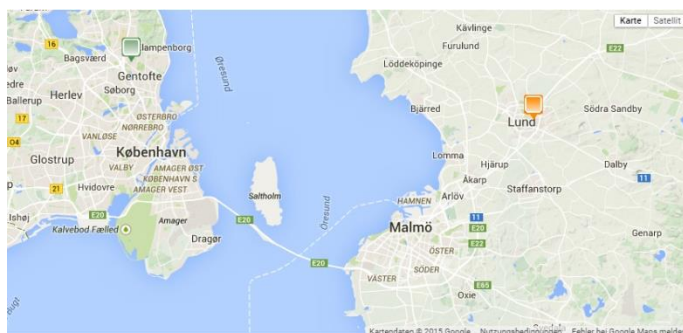
Alle grote deelprojecten van de Waterstofregio zullen worden gecoördineerd door Waterstofnet vzw uit Turnhout. Dit project zal zorgen voor een toename van de economische activiteiten bij de verschillende bedrijven van de waterstofsector in onze grensregio en bijkomende werkgelegenheid creëren.

Binnen het project zijn bovendien al een aantal innovatieve en indrukwekkende projecten concreet gerealiseerd, zoals bvb de 1 MW brandstofcelplant op restwaterstof bij Solvay en de bouw van een tankstation bij Colruyt Group, waarbij heftrucks op waterstof worden getest.

Andere projecten, zoals het uitwerken van een interactief onderwijsprogramma rond waterstof en logistieke en maritieme toepassingen zijn volop in uitvoering en ook bijkomende waterstofprojecten staan in de steigers.

Results: Onder leiding van Waterstofnet werkt binnen dit project een breed partnerschap samen rond verschillende concrete toepassingen van waterstof. Zo werden reeds diverse demonstratieprojecten gerealiseerd door bedrijven met toepassingen van waterstof in heftrucks, sloepen en bussen. De resultaten van het project zijn veelbelovend, en krijgen dan ook vanuit Europa de nodige aandacht.

Caso C.10.40: *Wind in Oresund (DK-SE)*



Source: KEEP database

Programme: 2007 - 2013 Öresund - Kattegat - Skagerrak (SE-DK-NO)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy; Education and training

Web: www2.imm.dtu.dk/~jkl/VIND_I_ORESUND/

Total Budget + Funding Total: € 1.880.902; EU Funding: € 940.451

Duration (dates): 2008-07-01 - 2011-06-30

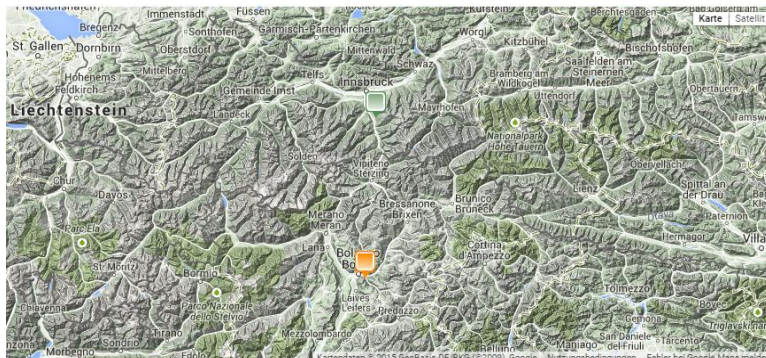
Lead Partner: University of Lund; Paradisgatan 5, Lunds Universitet, 223 50 Lund, Sweden
Per.Goran.Nilsson@rektor.lth.se

Project partners: Technical university of Denmark (DK) km@imm.dtu.dk

Description: The project will make an effort to guarantee that the wind industry (wind based energy) can have access to competent personnel. Education and knowledge development shall be coordinated with joint courses in the engineering programs, in order to make the Oresund region an internationally visible and attractive region for potential new students, and establishment of new companies.

Expected Results: Network established between major wind power actors in the region. New academic courses created at partner universities (DTU and LTH). Models for how an integrated energy system with large parts from wind power (including pilot case Bornholm of projections and distribution) can be created from a collective partnership between stakeholder in the region.

Caso C.10.41: *Network transfrontaliero tra Land Tirol e provincia di Bolzano nei campi dell'edilizia sostenibile e delle energie rinnovabili* Grenzübergreifendes Netzwerk zwischen dem Land Tirol und der Provinz Bozen in den Bereichen nachhaltiges Bauen und erneuerbare (AT/IT)



Source: KEEP database

Acronym: Pro Green **Programme:** 2007 - 2013 Italy - Austria (IT-AT)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy; Green technologies; Clustering and economic cooperation

Web: www.interreg.net/

Total Budget + Funding Total: € 197.000; EU Funding: € 124.110

Duration (dates): 2012-07-02 - 2013-12-31

Lead Partner: TIS - Techno Innovation South Tyrol SCpA
Via Werner Von Siemens, 39100 Bolzano, South Tyrol, Italy
stefano.dalsavio@tis.bz.it

Project partners: Tiroler Zukunftstiftung (AT) klaus.meyer@standort-tirol.at

Description: Land Tirol e la provincia di Bolzano, hanno sviluppato negli ultimi 20 anni politiche nei settori dell'edilizia sostenibile e delle energie rinnovabili con la finalità non solo di incentivare l'adozione di queste tecnologie per salvaguardare il clima e la qualità dell'ambiente, ma anche di sviluppare nuovi settori economici in cui operassero imprese innovative e competitive. I risultati ottenuti sono:

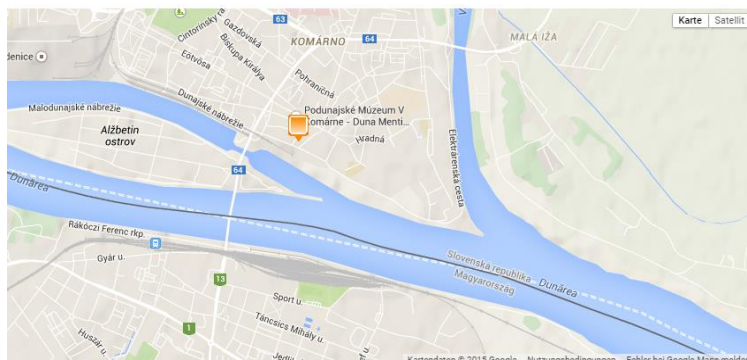
- un ampio utilizzo delle fonti rinnovabili (superiore agli obiettivi al 2020 dell'UE);
- una predisposizione degli imprenditori locali a pensare green, vedendo nei settori edilizia sostenibile e energie rinnovabili due settori economici interessanti;
- la creazione di un Cluster Energie Rinnovabili Tirolo (68 imprese, 8.200 addetti, 3,4 Miliardi € di fatturato) coordinato da Tiroler Zukunftstiftung e un network di imprese altoatesine coordinato dal TIS.

Parallelamente le due università locali hanno sviluppato sia attività didattiche che di ricerca su entrambe le tematiche. Questo sforzo compiuto dalle amministrazioni locali ha avuto nei propri enti strumentali TIS e Tiroler Zukunftstiftung le parti più attive e specificamente dedicate a supportare le aziende, in particolare le PMI. Entrambi i territori si trovano oggi in un contesto mondiale reso difficile dalla crisi economica.

Tuttavia il settore green è uno dei pochi non coinvolti nella recessione.

Contemporaneamente i produttori e i mercati di riferimento stanno variando. Lo sviluppo di sinergie e alleanze a livello transregionale è quindi un obiettivo strategico che ben si raccorda anche con l'istituzione dell'Euregio, che ha individuato nell'edilizia sostenibile e nelle energie rinnovabili uno dei temi principali per le proprie azioni future ("Raccomandazione sulle possibili aree di intervento" Incontro Castel Thun, 14 giugno 2011 e Protocollo di Intesa nel campo dell'edilizia sostenibile e delle green technologies, 2011).

Caso C.10.42: **Establishment of Renewable Energy Storage Clusters (HU-SK)**



Source: KEEP database

Acronym: RES-Clu **Programme:** 2007 - 2013 Hungary - Slovak Republic (HU-SK)

Theme: ECONOMIC DEVELOPMENT

Keywords: Clustering and economic cooperation Renewable energy Green technologies

Web: www.husk-cbc.eu/

Total Budget + Funding Total: € 408.462; EU Funding: € 329.833

Duration (dates): 2012-02-01 - 2013-07-31

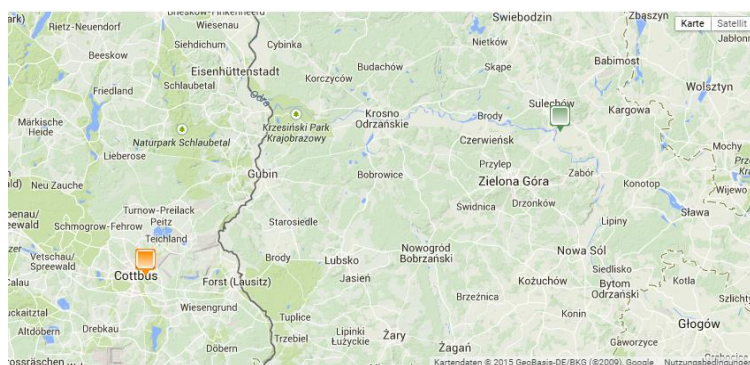
Lead Partner: Green Energy Storage Consulting, n.o.
Dunajské nábrežie 1159/5, 945 05 Komárno, Slovakia

Project partners:

Description: Main overall objective of our Project is to strengthen the competitiveness of SME's and institutions in the green/renewable energy sector on both sides of the border. To reach this, following specific goals have been determined:

- Detailed survey of electricity system regulation problems and deficiencies in both regions, and their potential elimination options
- Organization and long-term operation and cooperation of Clusters on both sides of border
- Alliance (clusters) organization and operation for SME's and institutions interested in Energy Storage, which could be the resolution for increasing renewables energy generation
- Specific examination of the distribution system in the 5 target regions from the perspective of incorporating increasing renewable energy generation (mainly solar and wind)
- Introduction, information, demonstration of novel Energy Storage methods, with how they can tackle above-mentioned problems specifically

Caso C.10.43: **Wärme aus einheimischer Biomasse (DE-PL)**



Source: KEEP database

Acronym: WTBR.02.03.00-54-005/09

Programme: 2007 - 2013 Lubuskie - Brandenburg (PL-DE)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy; Scientific cooperation

Web: www.projekty.witnica.pl

Total Budget + Funding Total: € 929.000; EU Funding: € 789.65

Duration (dates): 2010-07-01 - 2013-06-30

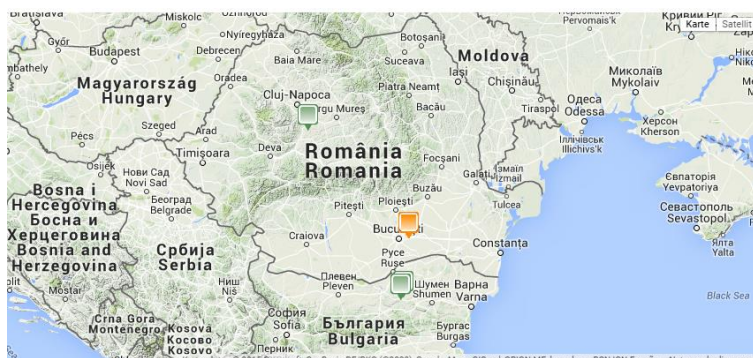
Lead Partner: Lehrstuhl Kraftwerkstechnik der Brandenburgische Technische Universität Cottbus; Cottbus, Germany

Project partners: Państwowa Wyższa Szkoła Zawodowa w Sulechowie (PL)
rektorat@pwsz.sulechow.pl

Description: Das Projekt „Wärme aus einheimischer Biomasse“ möchte die energetische Nutzung von Biomasse fördern. Die Hauptziele des Projektes sind daher: Erschließung neuer Märkte für die heimische Landwirtschaft, Diversifizierung des Angebotes an Energieträgern, Verminderung der Kohlendioxidemissionen. Diese Ziele werden durch eine enge Zusammenarbeit zwischen deutschen und polnischen Partnern aus dem Bereich der Land- und Forstwirtschaft sowie der hier beheimateten Universitäten erreicht.

Expected Results: Erschließung neuer Märkte für die heimische Landwirtschaft, Diversifizierung des Angebotes an Energieträgern, Verminderung der Kohlendioxidemissionen

Caso C.10.44: *Joint cooperation for a long-term and sustainable development of the young human resources in the field of the renewable energy technologies, in order to overcome the socio-cultural barrier and to open common opportunities for getting (BG-RO)*



Source: KEEP database

Acronym: **Programme:** 2007 - 2013 Romania - Bulgaria (RO-BG)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy; Education & training; Labour market & employment

Web: www.cbcrromaniabulgaria.eu/

Total Budget + Funding Total: € 945.837; EU Funding: € 802.259

Duration (dates): 2011-07-08 -

Lead Partner: National Institute for Research and Development in Electrical Engineering
ICPE – CA; Muzeul de Istorie al Comunităților Evreilor din România
Strada Mămulari 3, Bucharest, Romania
office@icpe-ca.ro

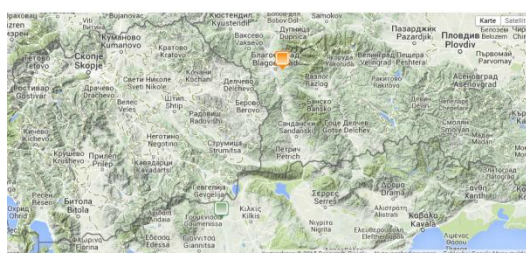
Project partners: University on Ruse "ANGEL KANCHEV" (BG) pmanoilov@ecs.ru.acad.bg

Naval Academy "Mircea cel Batran" (RO) relpub@navedu.anmb.ro

Association "Municipal Energy Agency - Rousse" (BG) mea.ruse@gmail.com

Description: Bringing together high level specialists from Romania and Bulgaria for designing joint curricula and training programs for developing the skills and knowledge of the youth human resources, in the field of the renewable energy technologies, in order to create and line up the advantages and opportunities for getting a job and their employment along the cross-border region.

Caso C.10.45: **CBC in the field of Renewable Energy Sources and Energy Efficiency (BG-FYROM)**



Source: KEEP database

Programme: 2007 - 2013 Bulgaria - Former Yugoslav Republic of Macedonia IPA CBC

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Energy efficiency; RES; Institutional cooperation & cooperation networks

Web: www.ipa-cbc-007.eu/

Total Budget + Funding Total: € 87.562; EU Funding: € 74.428

Duration (dates): 2011-07-04 - 2012-07-04

Lead Partner: Alliance of the Producers of Ecological Energy; BG-2700 Blagoevgrad (BG)

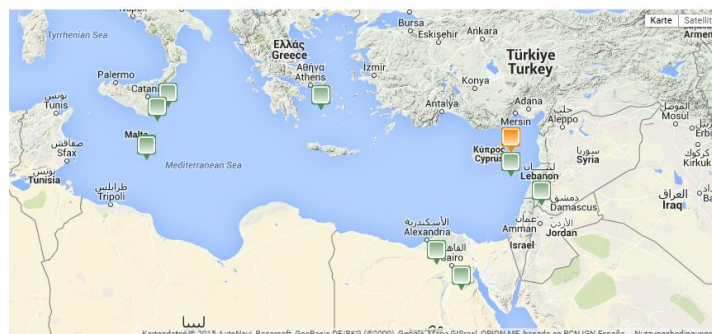
Project partners: Foundation for Local and IT Development (FYROM)

Description: In order to address and adequately approach the identified common issues and opportunities the project proposal will create sustainable tools that will support and foster the development of the cooperation between Bulgaria and FYROM in the field of alternative energy and energy efficiency. One such tool will be the Partnership Network in the field of RES and sustainable development, which will bring together SMEs, non-governmental organizations and local authorities from the target regions of both countries, which will be beneficial for the common future exploitation and development of measures in the field of green energy. Through the implementation of the set of project activities in Bulgaria and FYROM, both SMEs and BSOs (business support organizations) will be provided with quality and efficient tools that will aid them in 1) Finding a suitable business partner and 2) Raising the awareness and improving the knowledge and capacity of the local communities in terms of RES and EE.

Expected Results:

- Established two cross-border info and advice desks (one in Bulgaria and one in FYROM);
- Established Partnership Network for Cooperation between SMEs and branch organizations in the target CB region working in the field of RES and EE to aid and guide the development of SMEs of the CB region by encouraging investments and initiatives in this sector;
- Developed, published and distributed Cross-border business directory with information on both target regions regarding the renewable energies potential of the border regions and all the 24 municipalities from Blagoevgrad district (14) and from South-East Planning Region (10), as well as contact information of 1000 SMEs from the common cross-border region working in the field of RES and EE;
- Developed, published and distributed Info-guide on „How to invest in renewable energy in Macedonia – legislation, procedures, financing“;
- Carried out series of workshops in FYROM dedicated to renewable energies, alternative energy, energy efficiency and sustainable development;
- Carried out one contact meeting preceding the matchmaking event, where companies established contact and discussed the features of the Partnership network and the Memorandum
- Carried out one matchmaking event in support of the CB business cooperation between Bulgaria and FYROM in the field of RES and EE, May 11-12, 2012, BG. Signed a Memorandum for cooperation;
- Carried out one cross-border essay competition for students, that involved more than 80 participants from the target regions;
- Published and distributed 8 issues (500 copies each) of a monthly RES Bulletin.

Caso C.10.46: **Production of biodiesel from Algae in selected Mediterranean Countries**



Source: KEEP database

Acronym: MED-ALGAE **Programme:** 2007 - 2013 Mediterranean Sea Basin ENPI CBC

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy Scientific cooperation Green technologies

Web: www.enpicbcmmed.eu/projects

Total Budget + Funding Total: € 2.000.858; EU Funding: € 1.800.000

Duration (dates): 2011-12-08 - 2014-12-08

Lead Partner: Agricultural Research Institute (ARI); Famagusta-Nicosia Main Road, Ammochostos; p.polycarpou@arinet.ari.gov.cy

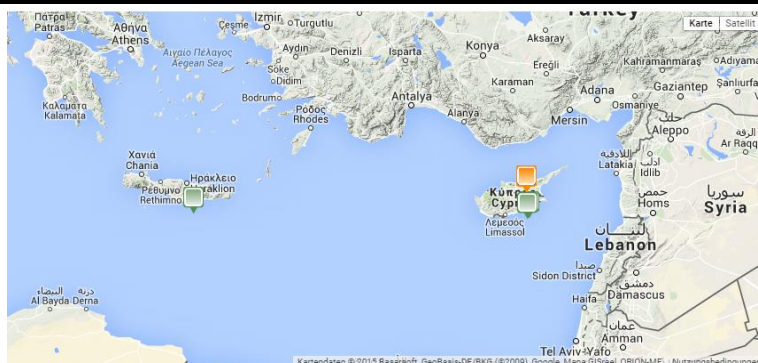
Project partners: Cyprus Energy Agency (CY)
 NATIONAL RESEARCH CENTRE (Egypt)
 Faculty of Science, Alexandria University (Egypt)
 NATIONAL TECHNICAL UNIVERSITY OF ATHENS (Greece)
 NATIONAL & KAPODISTRIAN UNIVERSITY OF ATHENS (Greece)
 STUDIO SARDO (IT)
 "MEDITERRANEA" UNIVERSITY OF REGGIO CALABRIA - Dept. Agroforestry and Environmental Scs; Technologies Agricultural Engineering Section (IT)
 American University of Beirut (Lebanon)
 LEBANESE ASSOCIATION FOR ENERGY SAVING AND FOR ENVIRONMENT
 Temi Zammit Foundation (Malta)
 Malta Intelligent Energy Management Agency (Malta)

Description: The potential of producing bio-fuel from microalgae has been recognized as an alternative to fossil fuels, especially under the form of liquid fuel (diesel, ethanol), which can be used in the transport sector. The use of microalgae as a biomass resource for production of biodiesel has drawn a lot of attention from researchers, governments and the private sector. To foster the development of microalgae as alternative fuel, the MED-ALGAE project will contribute to the establishment of a new value chain for the production of renewable energy based on microalgae which can secure sufficient quantity and quality of biodiesel. Microalgae by-products and related new business opportunities will also be identified by the project.

Expected Results:

- Review of the current state of the art concerning growth systems for production of microalgae
- Production of biodiesel for quality testing
- Identification of by-products from microalgae production with commercial potential
- Assessment of the conditions for the establishment of microalgae biodiesel production and bio refinery plants in identified pilot areas
- Valorisation of business opportunities for microalgae biodiesel production and resulting by-products

Caso C.10.47: **Thermal Power Generation and Water**



Source: KEEP database

Acronym: ΗΠΗΝ **Programme:** Programme: 2007 - 2013 Greece - Cyprus (EL-CY)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy Climate change and biodiversity

Web: www.greece-cyprus.eu/

Total Budget + Funding Total: € 1.295.000; EU Funding: € 1.036.000

Duration (dates): 2011-10-01 - 2013-09-01

Lead Partner: EDUCATIONAL AND RESEARCH INSTITUTE FOUNDATION CYPRUS (CY)
Konstantinou Kavafi, Nicosia, Cyprus g.tzamtzis@cyi.ac.cy

Project partners: ELECTRICITY AUTHORITY OF CYPRUS (CY) apoullik@eac.com.cy
WATER DEVELOPMENT DEPARTMENT (CY) amanoli@wdd.moa.gov.cy
TECHNOLOGY AND RESEARCH FOUNDATION / NETWORK ACT (GR) central@admin.forth.gr

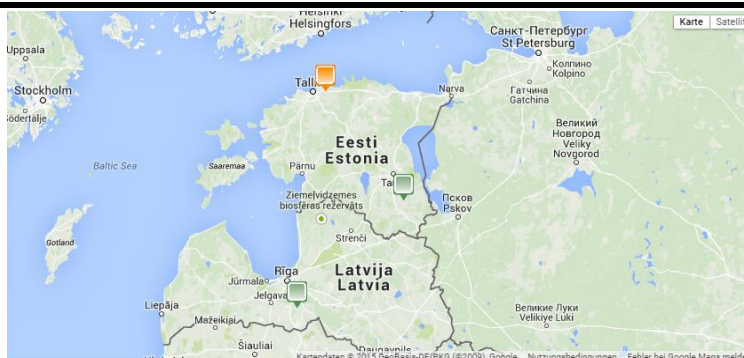
Description: Το έργο αφορά την κατασκευή μιας μικρής κλίμακας, πειραματικής μονάδας συμπαραγωγής (ΠΗΜΣ) που θα κάνει χρήση της ηλιακής ενέργειας για την ταυτόχρονη παραγωγή νερού και ηλεκτρισμού. Η λειτουργία της ΠΗΜΣ θα αποδείξει το υλοποιήσιμο της τεχνολογικής λύσης και θα επιβεβαιώσει την αξιοπιστία της ως σταθερή και αδιάλειπτη πηγή παραγωγής νερού και ηλεκτρισμού σε κανονικές συνθήκες λειτουργίας, αναδεικνύοντας της σε στάδιο ώριμο για αναπαραγωγή και εφαρμογή σε επίπεδο μαζικής παραγωγής και εμπορικής χρήσης.

Η μονάδα θα αποτελέσει επίσης οδηγό για την βελτιστοποίηση της τεχνολογίας και την ανάπτυξη σχεδίων λειτουργίας για την αποδοτικότερη εκμετάλλευση της δυνατότητας συμπαραγωγής ανάλογα με τις εκάστοτε ανάγκες των τελικών χρηστών και προσαρμοσμένη στις ιδιαιτερότητες της εκάστοτε περιοχής.

Η πειραματική μονάδα θα αποτελέσει μονάδα επίδειξης, ευαισθητοποιώντας το κοινό σε θέματα κλιματικής αλλαγής, προστασίας του περιβάλλοντος και προώθησης ανανεώσιμων πηγών. Θα αποτελέσει κίνητρο για την σταδιακή απαγκίστρωση της περιοχής από την εξάρτησή της σε ορυκτά καύσιμα και θα συμβάλει στην μείωση των εκπομπών του CO₂ σύμφωνα με τις οδηγίες της Ευρωπαϊκής Επιτροπής.

Expected Results:

Η πειραματική μονάδα θα αποτελέσει μονάδα επίδειξης, ευαισθητοποιώντας το κοινό σε θέματα κλιματικής αλλαγής, προστασίας του περιβάλλοντος και προώθησης ανανεώσιμων πηγών. Θα αποτελέσει κίνητρο για την σταδιακή απαγκίστρωση της περιοχής από την εξάρτησή της σε ορυκτά καύσιμα και θα συμβάλει στην μείωση των εκπομπών του CO₂ σύμφωνα με τις οδηγίες της Ευρωπαϊκής Επιτροπής.



Source: KEEP database

Acronym: GORWIND

Programme: 2007 - 2013 Estonia - Latvia (EE-LV)

Theme: ENVIRONMENT and CLIMATE CHANGE

Keywords: Renewable energy; Scientific cooperation; Regional planning & development

Web: www.estlat.eu/supported-projects/?project=31

Total Budget + Funding Total: € 1.444.612; EU Funding: € 1.227.920

Duration (dates): 2010-11-01 - 2012-10-31

Lead Partner: Marine Systems Institute at Tallinn University of Technology
10127 Tallinn, Estonia

Project partners: University of Tartu (EE)
Estonian University of Life Sciences (EE)
University of Latvia (LV)
Latvian Hydroecology Institute (LV)
Latvian Fund for Nature (LV)
Estonian Nature Fund (EE)

Description: The project carries out a comprehensive research for the future wind parks in the Gulf of Riga through analyzing the wind energy policies in both countries, obtaining reliable marine wind information, considering the environmental aspects, and involving in the discussions the relevant authorities, business partners and local people.

Expected Results: During the project, research institutes of both countries have been analyzing in detail the legislation and strategic plans for the wind parks in the Gulf of Riga, current situation with the use of wind energy, regulations related to building, environment, sea management, fishery and territorial planning. Private and public stakeholders from different fields have been brought together in policy forums and started a more active discussion and cooperation for effective wind energy use in future.

