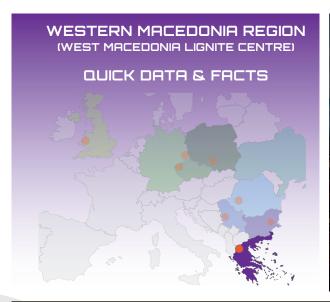
SMART STRATEGIES FOR THE TRANSITION IN COAL INTENSIVE REGIONS

TARGET REGION WEST MACEDONIA (EL53)







MINING & GENERATION		
Category	Economic region WMR	
Type of mining	Lignite found in horizontal or slightly inclined multiple layers (surface mining) In the wider area of the West Macedonia Lignite Centre, there are 4 lignite mines operating: South Field Mine, Main Field Mine, Amyntaio Mine (the Florina Mine also included) and Kardia Mine	
Landscape area / mining district	9,451 km² (4 Regional Units: Kozani, Grevena, Kastoria and Florina)	
Land taken by mining & reclaimed	160 km² / 30 km² already reclaimed (16 km² reforested, 10.5 km² agricultural land, 3 km² parks, lakes, etc.)	
Coal production	35.7 million tons extracted by the PPC + 2.2 million tons extracted by a few privately operated mines (2015)	
Employees	5,522 employees of PPC (4,199 permanently employed) (2014)	
Added value of lignite processing	1,450 million EUR (2013) (mines, processing, electricity supply, sewage treatment, etc.)	
Coal phase out	2050	

- Data sources:

 Public Power Corporation SA (PPC) (2017)

 "Overview: National coal phase-out announcements in Europe Status March 2019"

 Smart Specialisation Strategies in Greece expert team review for DG REGIO: "RIS3 Regional Assessment: Dytkik Makedonia (December 2012)"

 https://www.enterprisegreece.gov.gr/images/public/Synergasia-2018-Western_Macedonia.pdf

SOCIO-ECONOMIC BASELINE		
Category	Economic region WMR	Greece
Population	278,706 (in 2014)	10,741,165 (2018)
GDP per capita	15,642 EUR (2015)	20,157.41 EUR (2015) (20,494.40 EUR in 2017)
Share of industry on GDP	45% (mines, quarries, industry, electricity supply, etc.) (2013)	14.79% (industry) (2017)
Employees	86,200 (2018)	3,883,000 (2018)
Unemployment rate	31.3% (2016)	18% (2018)
Business start-upsat county level	N/A	562 (2018)
Patents per 100,000 inhabitants at county level	N/A	498 (2017) (4.4 per 100,000 inhabitants)

- Data sources:

 https://www.statista.com/statistics/276399/distribution-of-gross-domestic-product-gdp-across-economic-sectors-in-greece/

 ROADMAP FOR THE TRANSITION OF THE WESTERN MACEDONIA REGION TO A POST-LIGNITE ERA
- (WWF, July 2016)
 https://www.nationmaster.com/country-info/stats/Industry/Patent-applications/Residents/Per-
- Hellenic Statistical Authority

SMART SPECIALISATION STRATEGIES

Fields of action

- Infrastructure development
- ICT diffusion support
- (development of ICT structures & infrastructures)
- SMEs technological capacity upgrading
- Innovation & Science Business collaboration (enhancement of scientific specialization)
- Environmental protection
- Training of professionals to re-enter the labor market









Dr. Charalampos Malamatenios, malam@cres.gr. +30 210 6603 340 Georgia Veziryianni, gvezir@cres.gr, +30 210 6603 267 Lefteris Giakoumelos, egiakou@cres.gr, +30 210 6603 237





IS COURS IN









Centre for Renewable Energy 300000 Greece Charalampos Malamatenios, www.cres.gr Charalampos Malamatenios, www.cres.gr

Black Sea Energy Research Centre, Bulgaria Lulin Radulov, www.bserc.eu

Energoprojekt ENTEL, Serbia Miodrag Mesarovic, www.ep-entel.com

Coal Energy Technology Institute, Ukraine Igor Volchyn, www.ceti-nasu.org

Welsh Government, United Kingdom Trygve Rees, https://gov.wales Czech University of Life Sciences Prague, Czech Republic Marketa Hendrychova, www.czu.cz/en/

University of Agriculture in Krakow, Poland Marcin Pietrzykowski, www.ur.krakow.pl



