



Greek Participation in Energy calls of Horizon2020

Secure Clean and Efficient Energy

National Hellenic Research Foundation

Monday 26th October 2015

Assoc. Prof. Sotirios Karellas, Prof. Emmanuel Kakaras
Greek Delegates at the Energy Committee of Horizon 2020

Expert, National Representative

Emails: sotokar@mail.ntua.gr, ekak@central.ntua.gr



GENERAL RESULTS ON THE ENERGY CALLS in 2015

LCE-1-2015 two stage

LCE-2-2015

LCE-3-2015

CERFS

SCC

SMEINST – Cut off date 180315

SME-1 – Cut off date 170915



Greek Participation in Energy calls of Horizon2020

LCE-1-2015 two stage: LCE2 (Developing the next generation technologies of renewable electricity and heating/cooling, LCE11 (Developing next generation technologies for biofuels and sustainable alternative fuels), LCE15 (Enabling decarbonisation of the fossil fuel-based power sector and energy intensive industry through CCS), LCE17 (Highly flexible and efficient fossil fuel power plants)

LCE-2-2015: LCE3 (Demonstration of renewable electricity and heating/cooling Technologies) , LCE12 (Demonstrating advanced biofuel technologies), LCE19 (Supporting coordination of national R&D Activities), LCE21 (Modelling and analysing the energy system, its transformation and Impacts)

LCE-3-2015: LCE4 (Market uptake of existing and emerging renewable electricity, heating and cooling technologies), LCE5 (Innovation and technologies for the deployment of meshed off-shore grids), LCE6 (Transmission grid and wholesale market), LCE9 (Large scale energy storage), LCE14 (Coordination and Support Actions), LCE18 (Supporting Joint Actions on demonstration and validation of innovative energy solutions), LCE23 (Supporting the community in deploying a common framework for measuring the energy and environmental efficiency of the ICT-sector)

CERFS: ENERGY CSA

SCC: SCC-1 (Smart Cities and Communities solutions integrating energy, transport, ICT sectors through lighthouse (large scale demonstration - first of the kind) projects – IA actions

SCC-3 (Development of system standards for smart cities and communities solution)



Greek Participation in Energy calls of Horizon2020

SMEINST – Cut off date 180315

SME-1 – Cut off date 170915

ICT-37-2015: Open Disruptive Innovation Scheme

NMP-25-2015: Accelerating the uptake of nanotechnologies advanced materials or advanced manufacturing and processing technologies by SMEs

BIOTEC-5-2015: SME boosting biotechnology-based industrial processes driving competitiveness and sustainability

SME-SPACE-1-2015: SME Instrument

PHC-12-2015: Clinical research for validation of biomarkers and/or diagnostic medical devices

SFS-8-2015: Resource-efficient eco-innovative food production and processing

BG-12-2015: Supporting SME's efforts for the development - deployment and market replication of innovative solutions for blue growth

SIE-1-2015: Stimulating the Innovation potential of SME's for a low carbon & efficient energy system

IT-1-2015: Small business innovation research for Transport

SC5-20-2015: Boosting the potential of small businesses for eco-innovation and a sustainable supply of raw materials

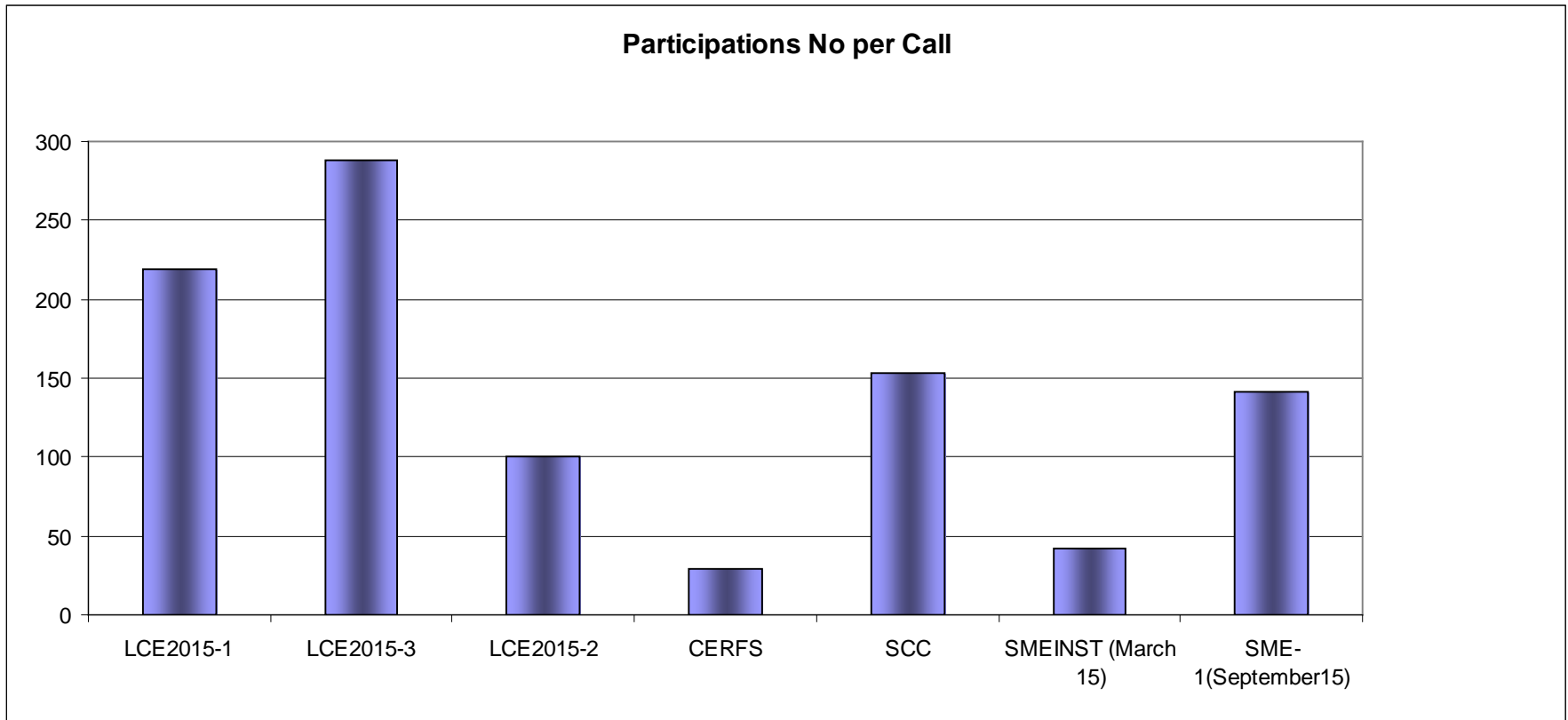
INSO-9-2015: Innovative mobile e-government applications by SMEs

INSO-10-2015: SME business model innovation

DRS-17-2015: Protection of urban soft targets and urban critical infrastructures

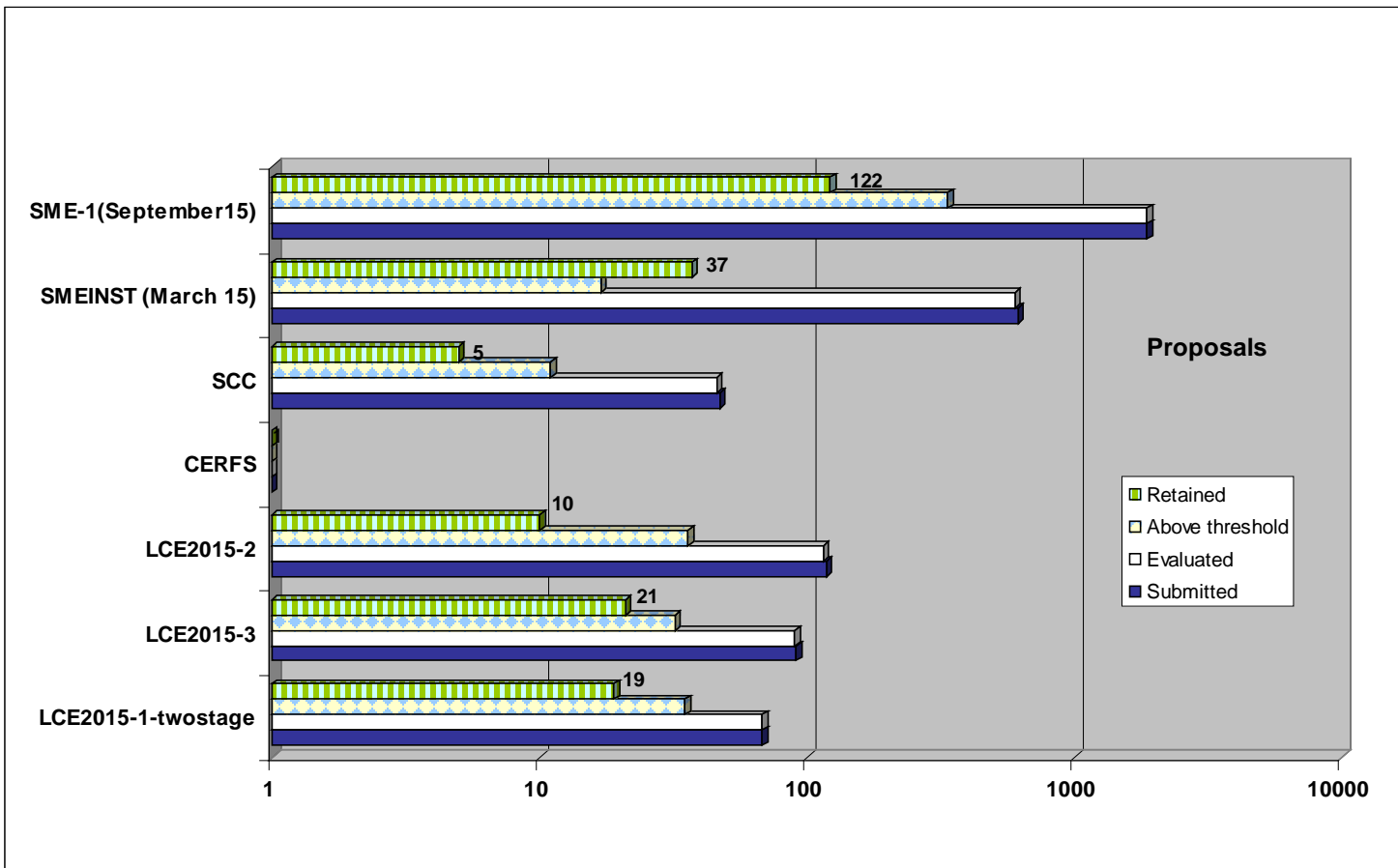


Participations per Call



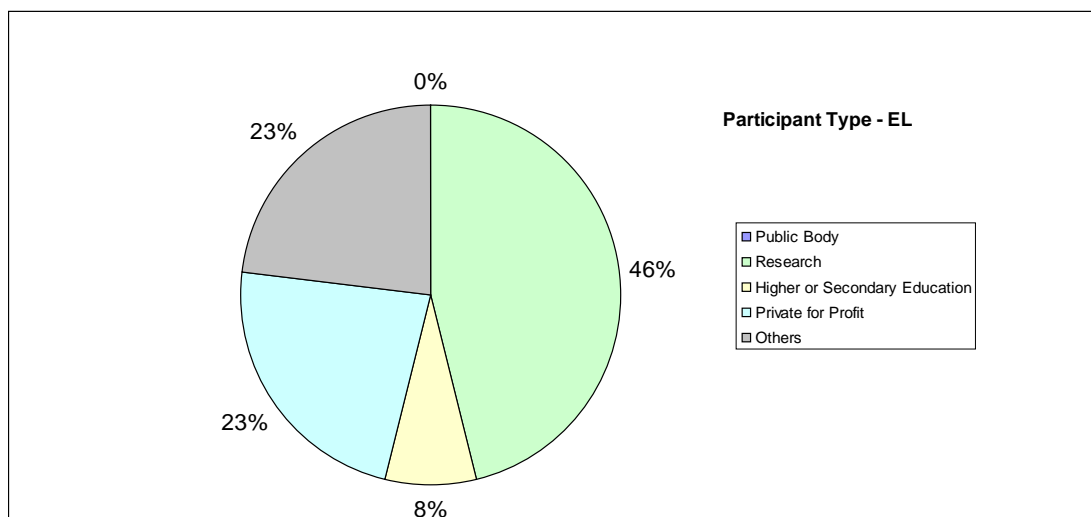
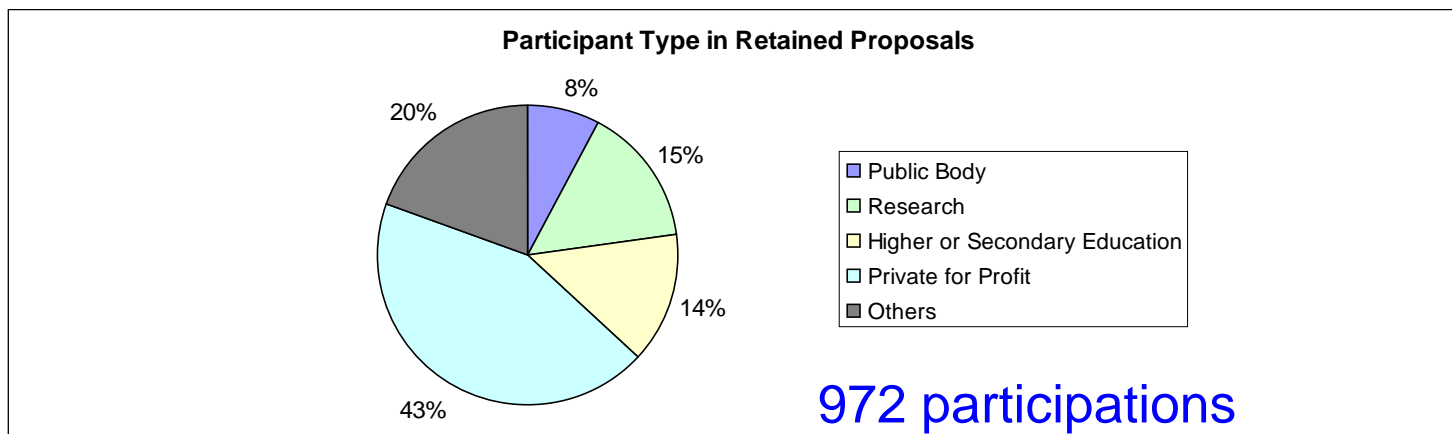


Comparison among submitted/evaluated/above threshold and retained proposals





Participant Type in Retained Proposals



EL



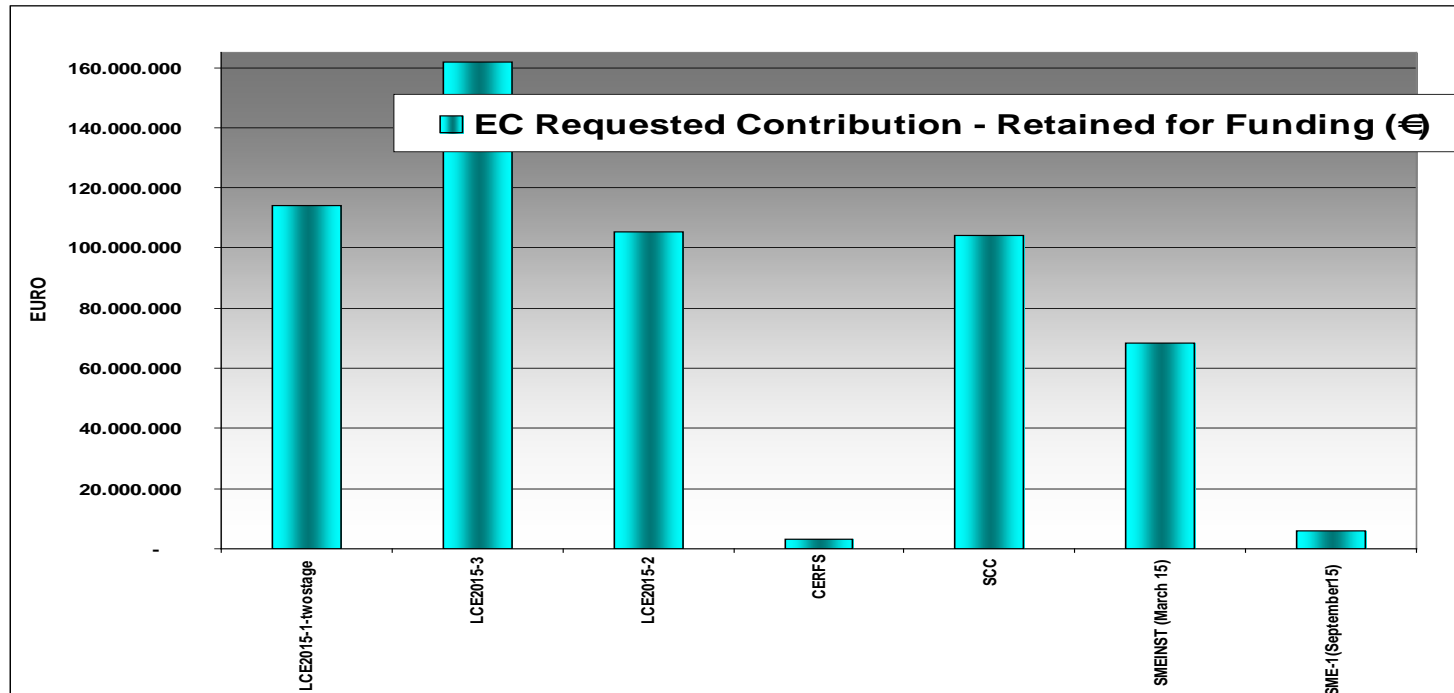
13 participations

10 proposals

9 different entities



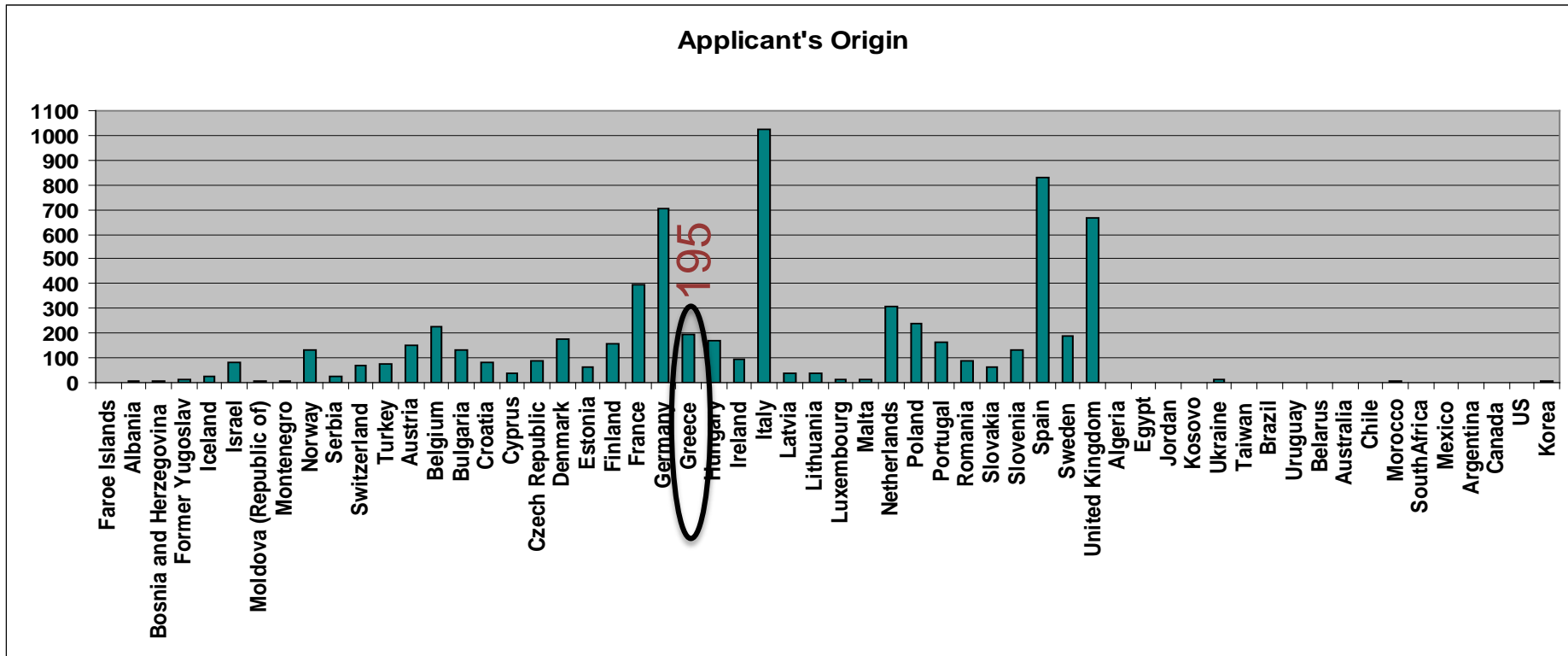
EC requested contribution retained for funding



Total EC funding: m€ 570,7 of which m€ 2,2 to EL participants

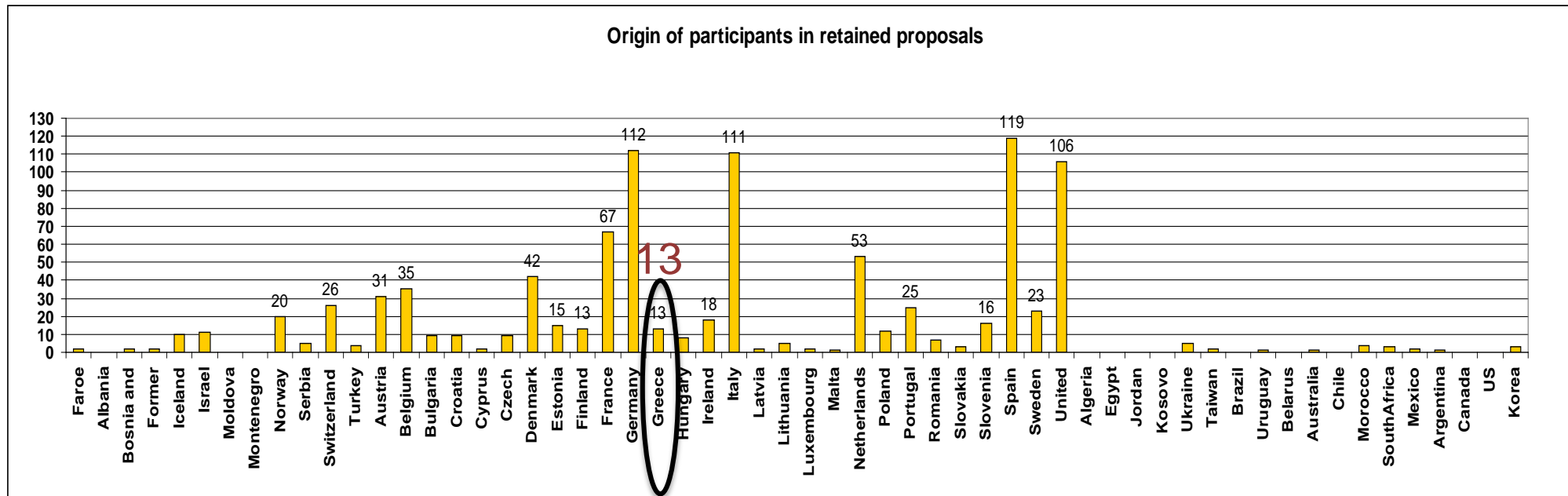


Applicants' Origin in All Proposals





Applicants' Origin in "Main List" Proposals





H2020 Calls – “Secure Clean & Efficient Energy”

Competitive Low Carbon Energy (H2020-LCE-2015-1 (Stage 2))

Deadline: 05-05-2015 / Budget: 101.000.000 €

Retained for Funding: 28% of evaluated (19 proposals)

EL participation in retained proposals: 1

EC funding contribution: m€ 114,05

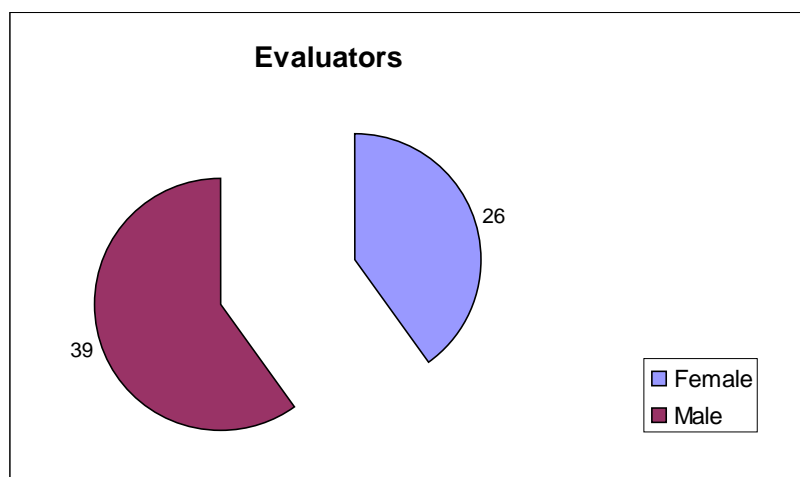
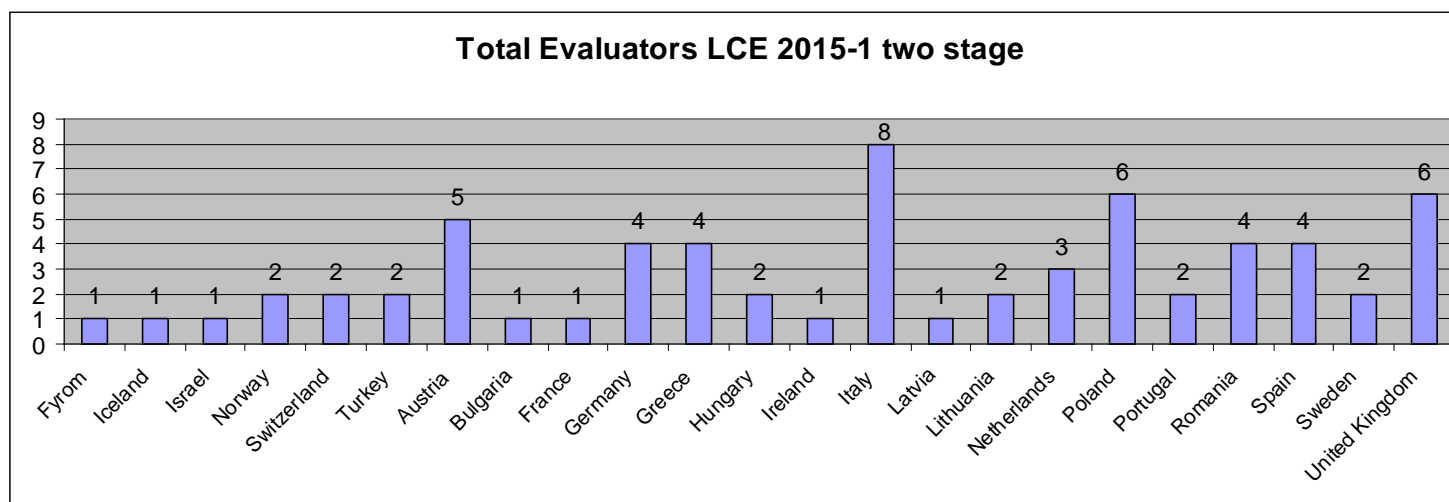
LCE2 (RIA),LCE11 (RIA),LCE15 (RIA),LCE17 (RIA)

	LCE2-									LCE 15 -CCS	LCE17 -Fle	TOTAL
	LCE2- PV	LCE2-CSP	Geothermal	LCE2-Hydro	LCE2-Ocean	LCE2-Biomass CHP	LCE2-WIND	LCE 11- Biofuels				
Above Threshold	2	4	4	1	2	2	1	11	4	4	35	
Below Threshold	8	1	2	0	2	2	0	12	4	2	33	
Evaluated	10	5	6	1	4	4	1	23	8	6	68	



H2020 Calls – “Secure Clean & Efficient Energy”

H2020-LCE-2015-1 (Stage 2)



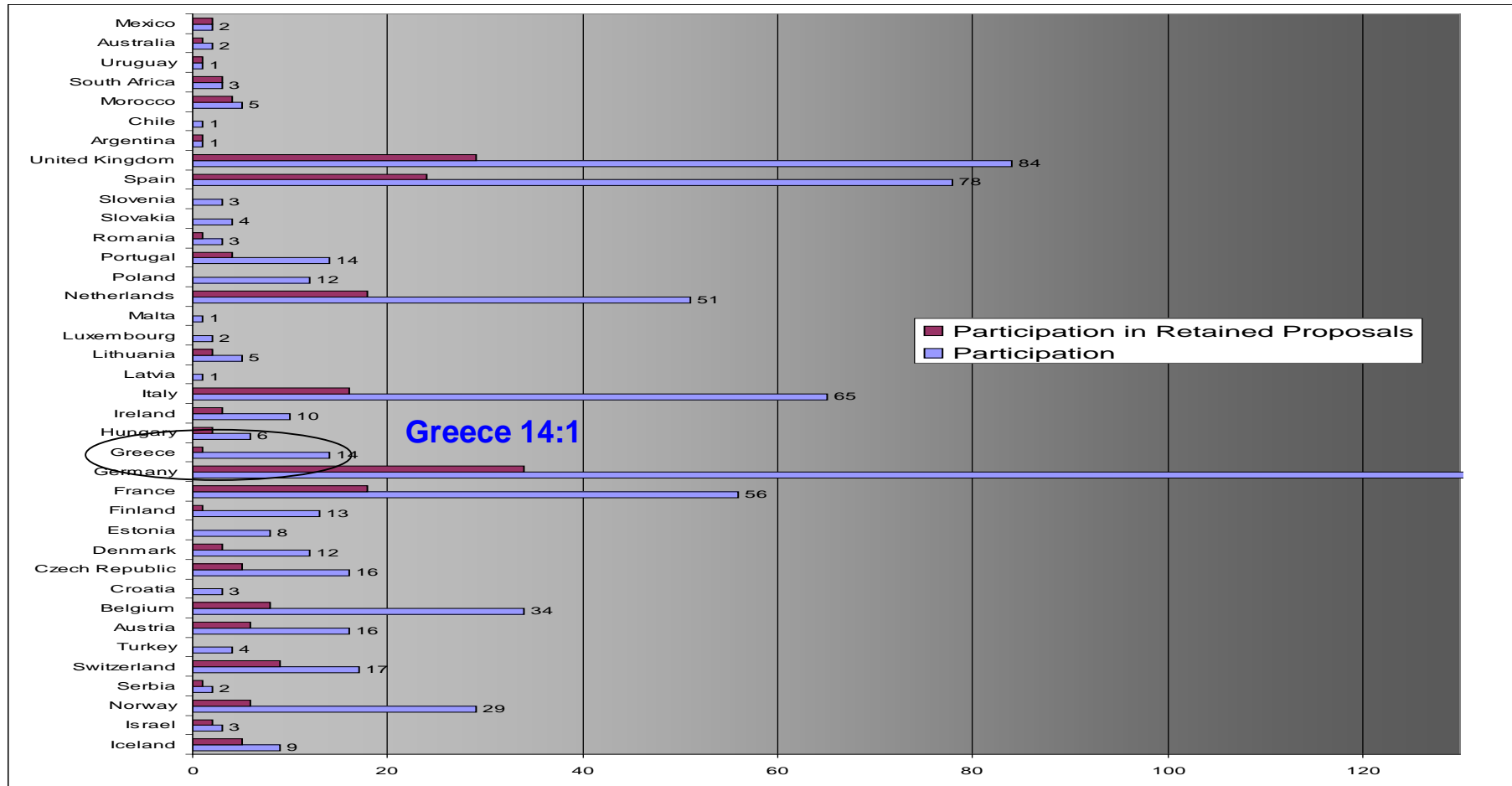
SME Coordinators

- in 68 evaluated proposals: 7
- in 19 retained proposals: 3



H2020 Calls – “Secure Clean & Efficient Energy”

H2020-LCE-2015-1 (Stage 2)





H2020 Calls – “Secure Clean & Efficient Energy”

H2020-LCE-2015-1 (Stage 2)

Evaluated: 68

Funded: 19

Reserve List: 13

Total Cost evaluated: € 437.147.671,75

Total Budget for Retained Proposals: € 130.951.225,75

Total EU contribution for Retained Proposals: € 114.047.968,1

EL-requested for funding by successful participant: k€ 182 (One Private for Profit Organization)





H2020 Calls – “Secure Clean & Efficient Energy”

Competitive Low Carbon Energy (H2020-LCE-2015-2))

Deadline: 05-05-2015 / Budget: 93.000.000 €

Retained for Funding: 9% of evaluated (10 proposals)

EL participation in retained proposals: 1

EC funding contribution: m€ 105,5

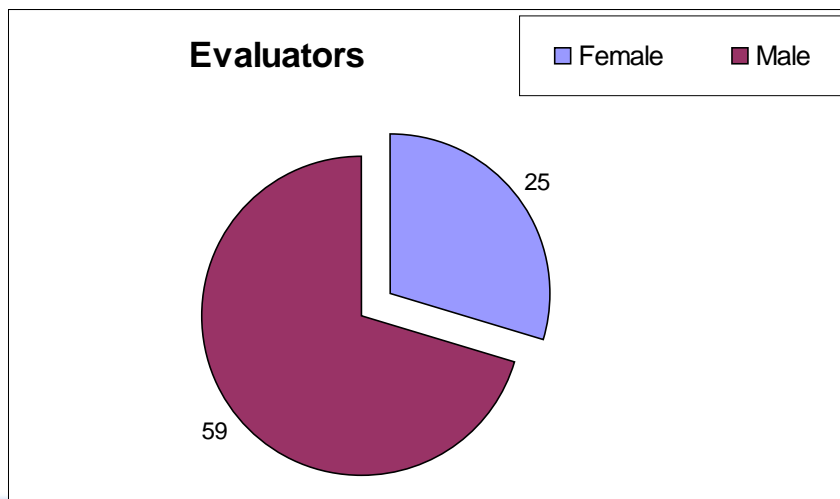
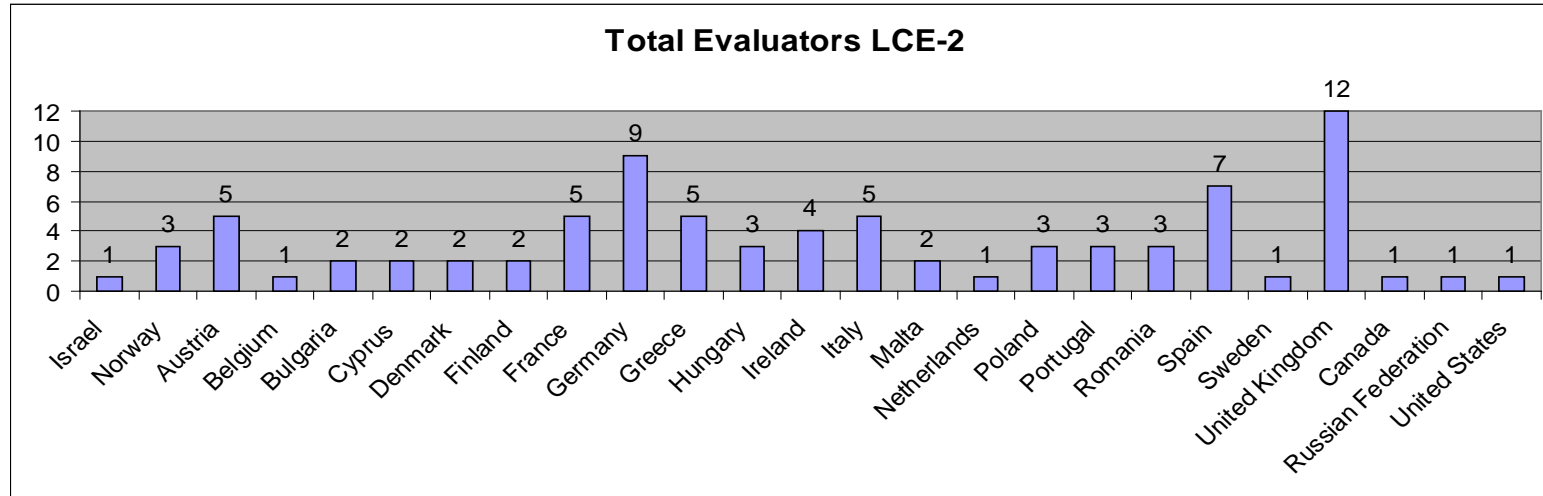
LCE3 (IA),LCE12(IA),LCE19(CSA),LCE21(RIA)

H2020-LCE-2015-2	LCE3-Geothermal	LCE3-Ocean	LCE3-PV	LCE3-Solar	LCE3-WIND	LCE12	LCE19	LCE21	TOTAL
Above Threshold	3	5	2	2	3	2	1	18	36
Below Threshold	3	9	11	13	6	15	1	21	79
Evaluated	6	14	13	15	9	17	2	39	115



H2020 Calls – “Secure Clean & Efficient Energy”

H2020-LCE-2015-2



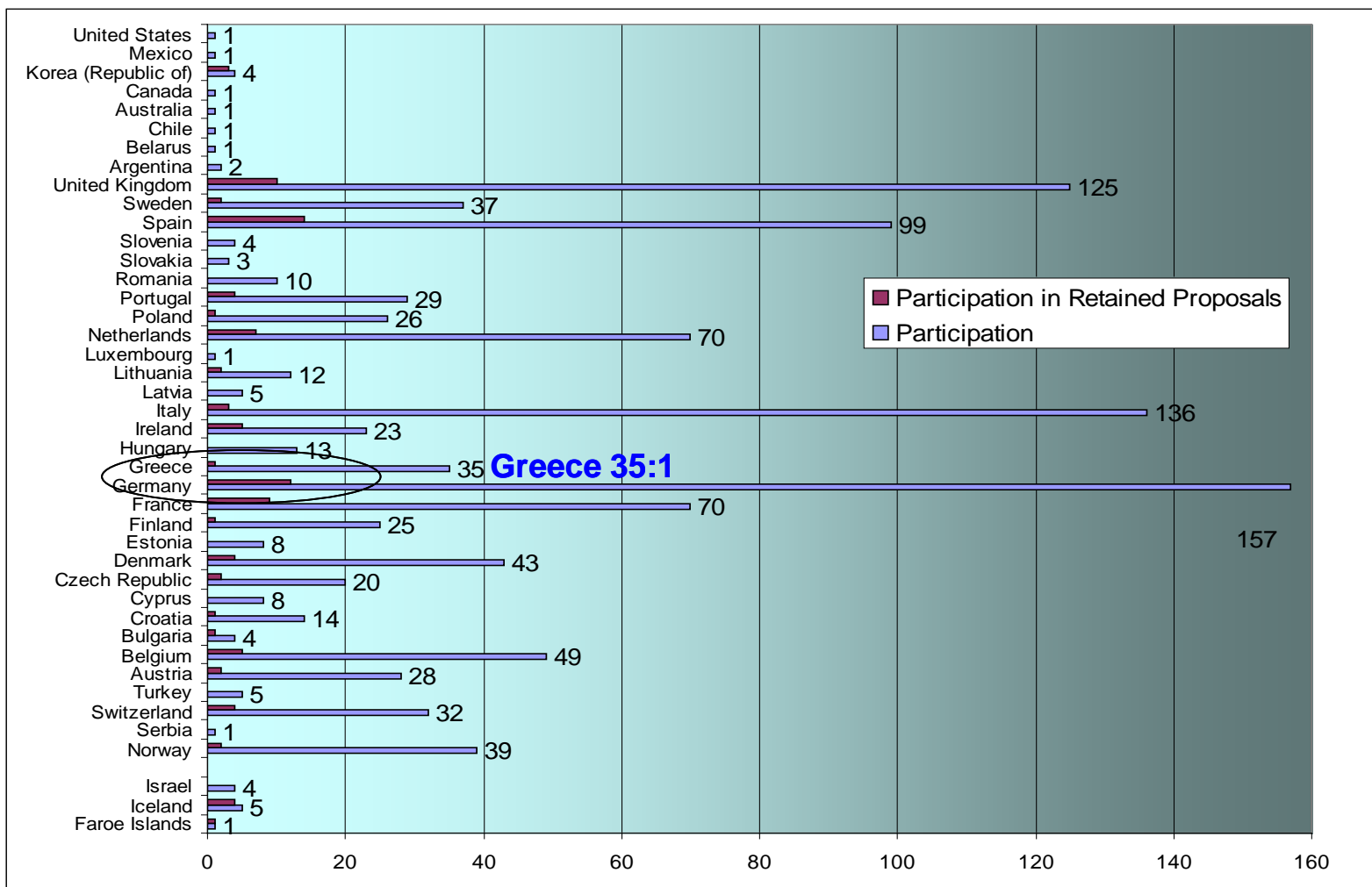
SME Coordinators

- in 115 evaluated proposals: 29
- in 10 retained proposals: 3



H2020 Calls – “Secure Clean & Efficient Energy”

H2020-LCE-2015-2





H2020 Calls – “Secure Clean & Efficient Energy”

H2020-LCE-2015-2

Evaluated: 115

Funded: 10

Reserve List: 14

Total Cost evaluated: € 1.315.573.931,5

Total Budget for Retained Proposals: € 172.465.973,5

Total EU contribution for Retained Proposals: € 105.505.636,76

EL-requested for funding by successful participant: k€ 203
(One Research Organization)





H2020 Calls – “Secure Clean & Efficient Energy”

Competitive Low Carbon Energy (H2020-LCE-2015-3)

Deadline: 05-05-2015 / Budget: 189.570.000 €

Retained for Funding: 23% of evaluated (21 proposals)

EL participation in retained proposals: 9 (in 7 proposals)

EC funding contribution: m€ 161,9

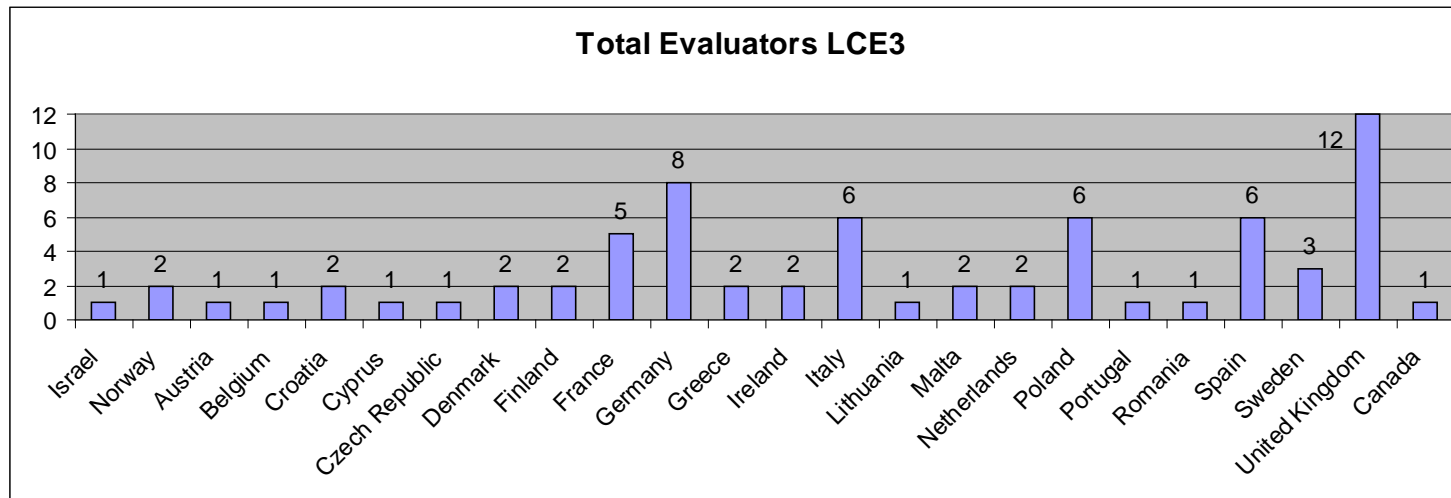
LCE4(CSA),LCE5(IA),LCE6(IA,RIA),LCE9(RIA),
LCE14(CSA),LCE18(ERANET-CoFUND),LCE23 (CSA)

H2020-LCE-2015-3	LCE4	LCE5	LCE6	LCE9	LCE14	LCE18	LCE23	TOTAL
Above Threshold	4	1	6	5	11	4	1	32
Below Threshold	22	0	5	8	22	0	1	58
Evaluated	26	1	11	13	33	4	2	90

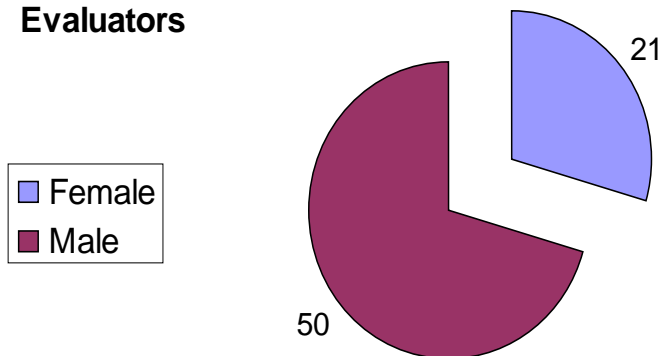


H2020 Calls – “Secure Clean & Efficient Energy”

H2020-LCE-2015-3



Evaluators



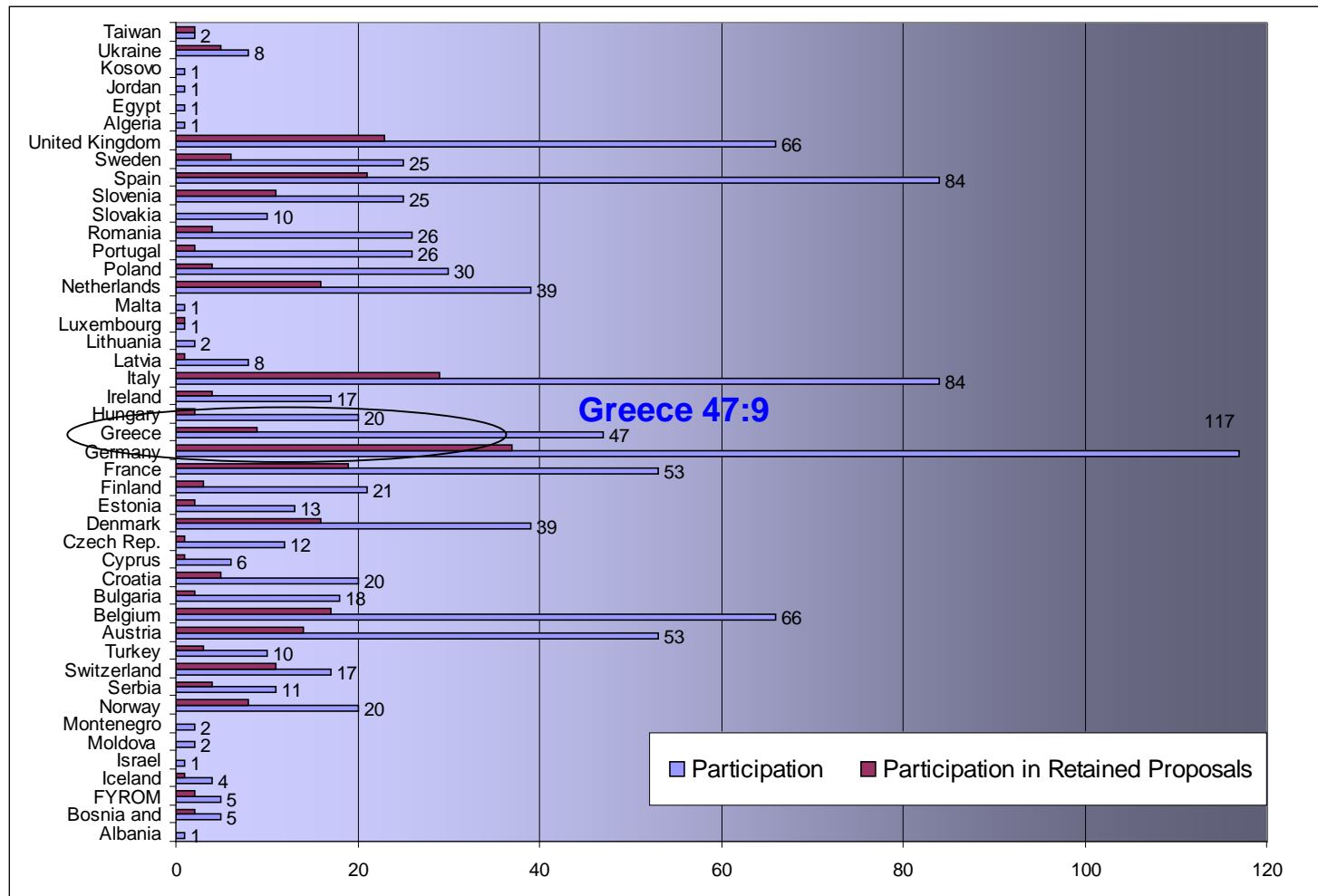
SME Coordinators

- in 90 evaluated proposals: 25
- in 21 retained proposals: 7



H2020 Calls – “Secure Clean & Efficient Energy”

H2020-LCE-2015-3





H2020 Calls – “Secure Clean & Efficient Energy”

H2020-LCE-2015-3

Evaluated: 90

Funded: 21

Reserve List: 7

Total Cost evaluated: € 706.380.271,5

Total Budget for Retained Proposals: € 266.281.148,25

Total EU contribution for Retained Proposals: € 161.930.061,12

EL-requested for funding by successful participants: m€ 1,8 (1 Research Organization, 1 Private for Profit Org., 1 Higher Education, 3 Other)





H2020 Calls – “Secure Clean & Efficient Energy”

Smart Cities and Communities (H2020-CERFS-2015)

Deadline: 05-05-2015 / Budget: 107.180.000 €

Retained for Funding: 1 evaluated

EL participation in retained proposals: 1

EC funding contribution: m€ 3

Participants: EU28 plus Norway

Retained for funding: m€ 3

EL-requested for funding by successful participant: k€ 28 (One Research Organization)





H2020 Calls – “Secure Clean & Efficient Energy”

Smart Cities and Communities (H2020-SCC-2015)

Deadline: 05-05-2015 / Budget: 107.180.000 €

Retained for Funding: 14% of evaluated (5 proposals)

EL participation in retained proposals: 0

EC funding contribution: m€ 104,1

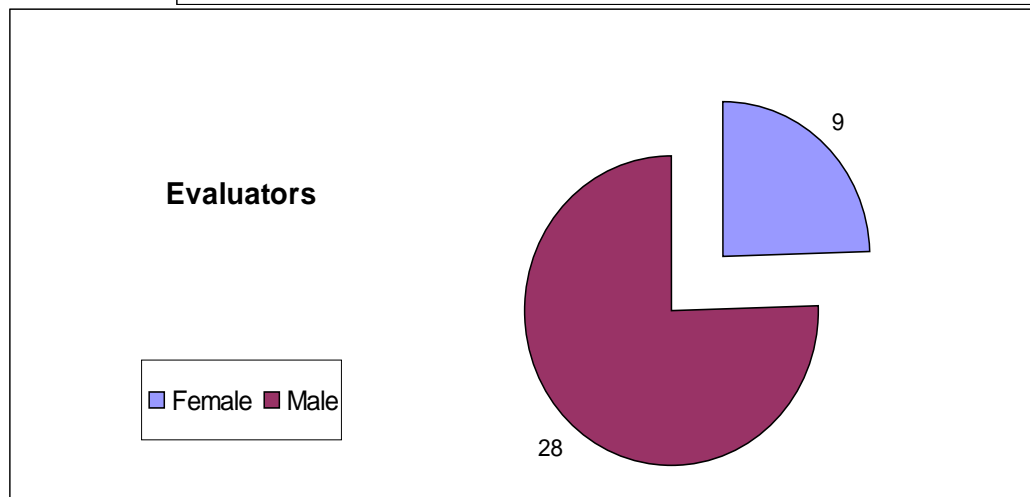
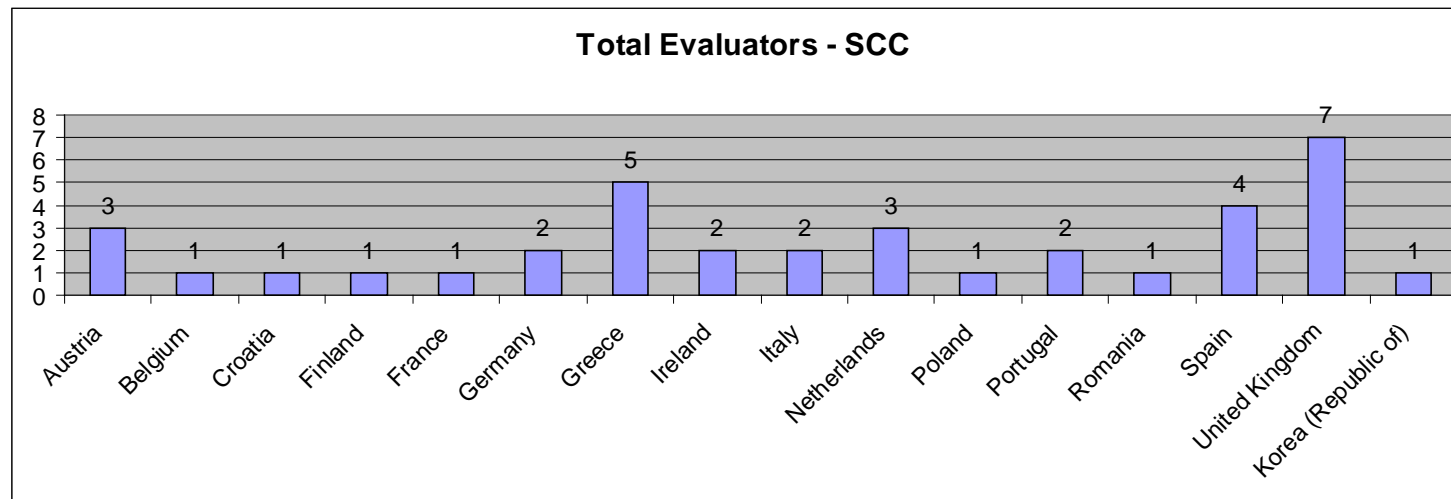
SC1(IA) & SC3 (CSA)

H2020-SCC	SCC-01-2015	SCC-03-2015	TOTAL
Above Threshold	9	2	11
Below Threshold	28	7	35
Evaluated	37	9	46



H2020 Calls – “Secure Clean & Efficient Energy”

H2020-SCC-2015



SME Coordinators

- in 46 evaluated proposals: 6
- in 5 retained proposals: 2



H2020 Calls – “Secure Clean & Efficient Energy”

H2020-SCC-2015

Acronym / Duration	Project Title	Topic/Type of action	Coordinator	Budget
ESPRESSO (24 months)	Systemic standardisation approach to empower smart cities and communities	SCC-03-2015 (CSA)	UK / Private for profit - SME	1,07mio/1,06
REPLICATE (60 months)	Renaissance of Places with Innovative Citizenship and Technology	SCC-01-2015 (IA)	ES / Other - SME	29mio/24,7mio
SMARTER TOGETHER (60 months)	Smart and Inclusive Solutions for a Better Life in Urban Districts	SCC-01-2015 (IA)	FR / Private for Profit	24,7mio/29mio
SmartEnCity (66 months)	Towards Smart Zero CO2 Cities across Europe	SCC-01-2015 (IA)	ES / Research Organization	32,2mio/27,9mio
SHAR-LLM (60 months)	Sharing Cities	SCC-01-2015 (IA)	UK / Public body	28,3mio/25mio



H2020 Calls – “Secure Clean & Efficient Energy”

H2020-SCC-2015
(Retained Projects)

SCC-03

SCC-01

Acronym	Coordinator (Member State)	Participants	No of Participants
ESPRESSO	OPEN GEOSPATIAL CONSORTIUM (EUROPE) LIMITED (UK)	IT (3), DE (4), NL(2), UK(2), EE, ES, FR	14
REPLICATE	Fomento de San Sebastian (ES)	ES(11), IT (8), UK(12), DE(2), CH, TR	35
SMARTER TOGETHER	LYON CONFLUENCE (FR)	FR(7), DE(10), AT(8), BE, CH, ES, BG, IT	30
SmartEnCity	FUNDACION TECNALIA RESEARCH & INNOVATION (ES)	ES (12), DK(8), EE(9), IT (2), BG(2), DE	34
SHAR-LLM	GREATER LONDON AUTHORITY (UK)	UK(10), DK, PT(8), IT(11), FR, BE(2), PL(2)	35

153 participants among which ES(27) UK(26) IT(25)



H2020 Calls – “Secure Clean & Efficient Energy”

H2020-SCC-2015

	Acronym	Lighthouse	Followers	Comments
1 st (12,5)	REPLICATE	San Sebastian (ES), Florence (IT), Bristol (UK)	Essen (DE), Nilufer (Tr) and Lausanne (CH)	
2 nd (12,5)	SMARTER TOGETHER	Lyon (FR), Munich (DE), Vienna (AT)	Santiago de Compostela (ES), Sofia (BG) Venice (IT),	Kyiv, Yokohama (Observer Cities)
3 rd (12,5)	SmartEnCity	Vitoria_Gasteiz (ES), Tartu (EE), Sonderborg (DK)	Lecce (IT), Asenovgrad (BG)	
4 th (11,0)	Shar-LLM	London(UK), Lisboa (Pt), Milano (It))	Bordeaux (FR), Warsaw (Pl), Burgas (BG)	
5 th (11,5)	Greener Together	Kopenhagen (DK), Hamburg (DE), Nante (FR)	Bydgoszcz (Pl), Vilnius (LT), Rijeka (HR)	Reserve List!
6 th (11,0)	CATALIST	Newcastle (UK), Thessaloniki (EL), Jyvaskyla (Fi)	Nicosia (CY), Constanta (RO), Viimsi (EE), Savona (IT)	Reserve List!

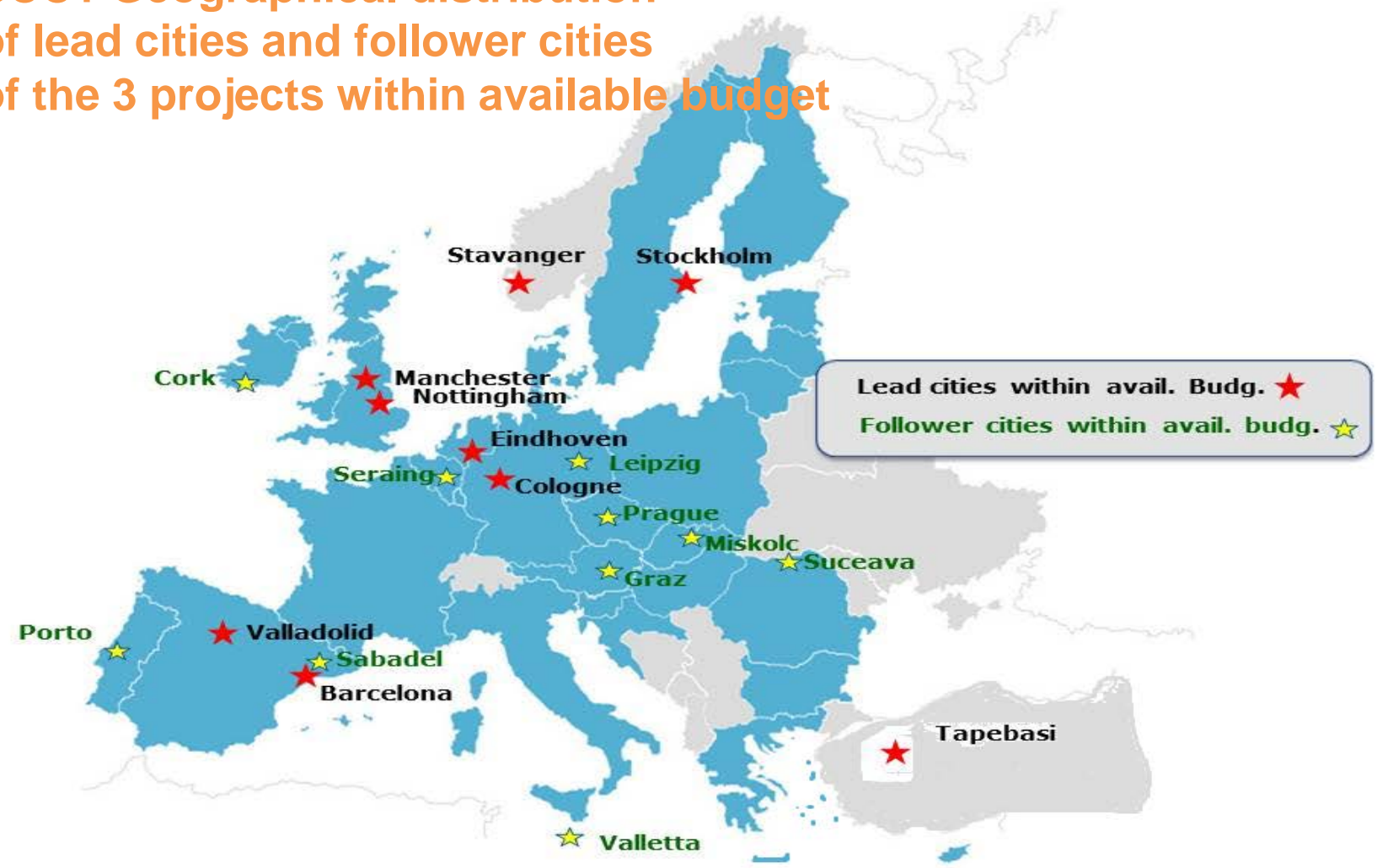
12 Lighthouse Cities: ES(2), IT(2), UK(2), FR(1), DE(1), AT(1), EE(1), DK(1), PT(1)

11 Followers: IT(2), FR(2), BG(2), DE(1), PL(1), ES(1), TR(1), CH(1)



PREVIOUS SCC1

SCC1 Geographical distribution of lead cities and follower cities of the 3 projects within available budget





H2020 Calls – “Secure Clean & Efficient Energy”

Lighthouse cities and Follower cities





H2020 Calls – “Secure Clean & Efficient Energy”

Greek Cities which Participated

	Acronym	Lighthouse	Followers
Reserve List	CATALIST	Newcastle (UK), Thessaloniki (EL) , Jyvaskyla (Fi)	Nicosia (CY), Constanza (RO), Viimsi (EE), Savona (IT)
Below Threshold	COLORS	Amsterdam (NL), Helsinki (Fi), Turin (IT)	Sofia(BG), Mersin (TR) Alexandroupoli (EL)
Below Threshold	GRASS2REGIONS	Sabadell (ES), Bergamo (IT)	Piraeus (EL) , Tournai (BE),
Below Threshold	PHAROS	Valencia (ES), Hamburg (DE), Heraklion (EL)	Ostend (BE), Varna (BG),
Below Threshold	Smart-X3	Nea Ionia.....	
Below Threshold	SmartFIT	Trikala...	



H2020 Calls – “Secure Clean & Efficient Energy”

H2020-SCC-2015

Evaluated: 46

Funded: 5

Reserve List: 3

Total Cost evaluated: € 995.934.400,00

Total Budget for Retained Proposals: €119.673.704,25

Total EU contribution for Retained Proposals: € 104.118.174,89

EL-retained for funding: 0 €





H2020 Calls – “Secure Clean & Efficient Energy”

H2020 – SME Instrument Phase 1

Proposals on Main List: 149

EU Requested Contribution: € 7.450.000

Retained proposal's participants: AT(6), BE(2), CZ(1), DE(11), DK(5), EE(5), ES(32), FI(2), FR(5), HU(5), IE(3), IL(2), IS(1), IT(20), LT(1), LU(1), NL(7), PL(5), PT(3), SE(9), SI(3), TR(1), UK(19)



H2020 Calls – “Secure Clean & Efficient Energy”

H2020 – SME Instrument Phase 2

Cut-off date: 18 March 2015 / Budget: m€ 259,87

Retained for funding: 6% of evaluated (37proposals)

EL participation in retained proposals:0

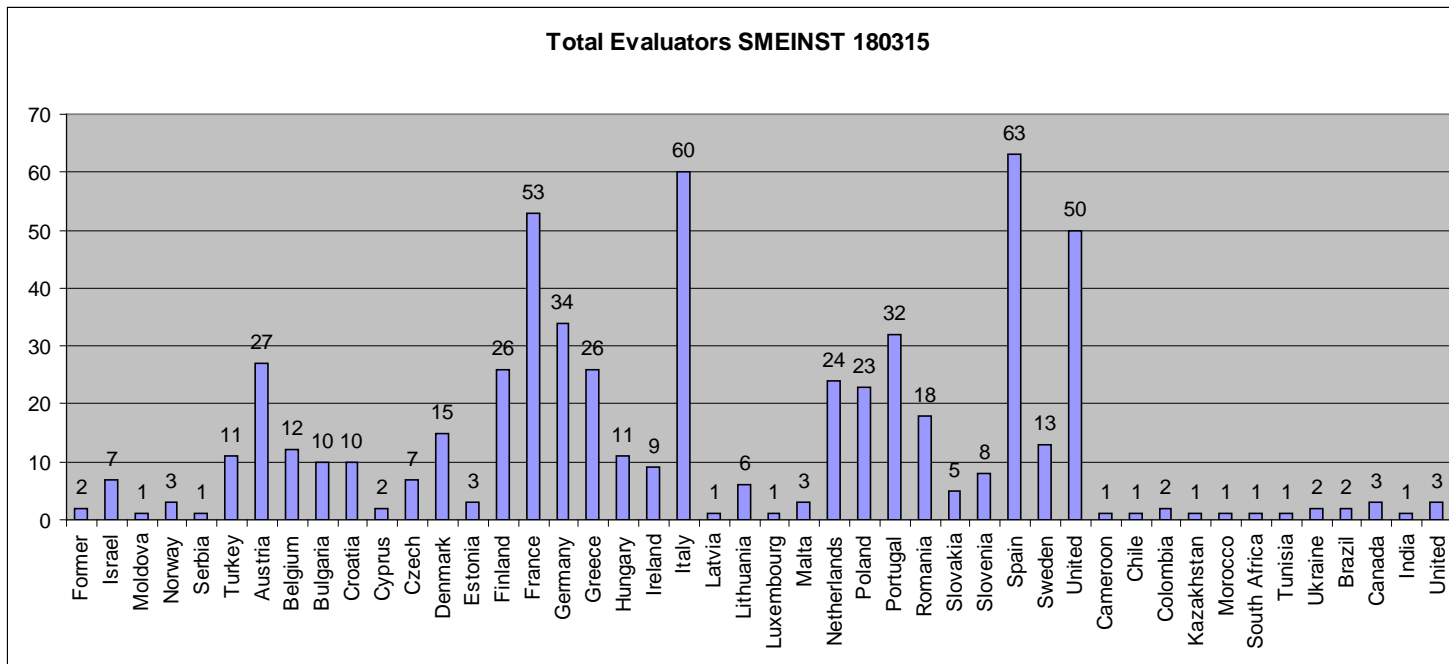
EC funding contribution: m€68,6

ICT-37, NMP-25, BIOTEC-5, SME-SPACE-1, PHC-12, SFS-8, BG-12, SIE-1, IT-1, SC5-20, INSO-9, INSO-10, DRS-17 (all SME types of action)

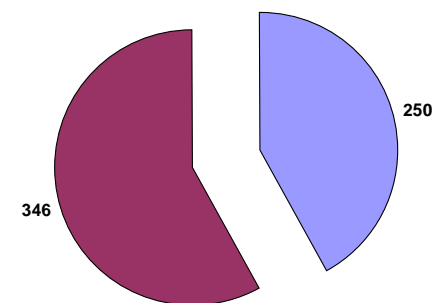


H2020 Calls – “Secure Clean & Efficient Energy”

H2020-SMEINST-180315



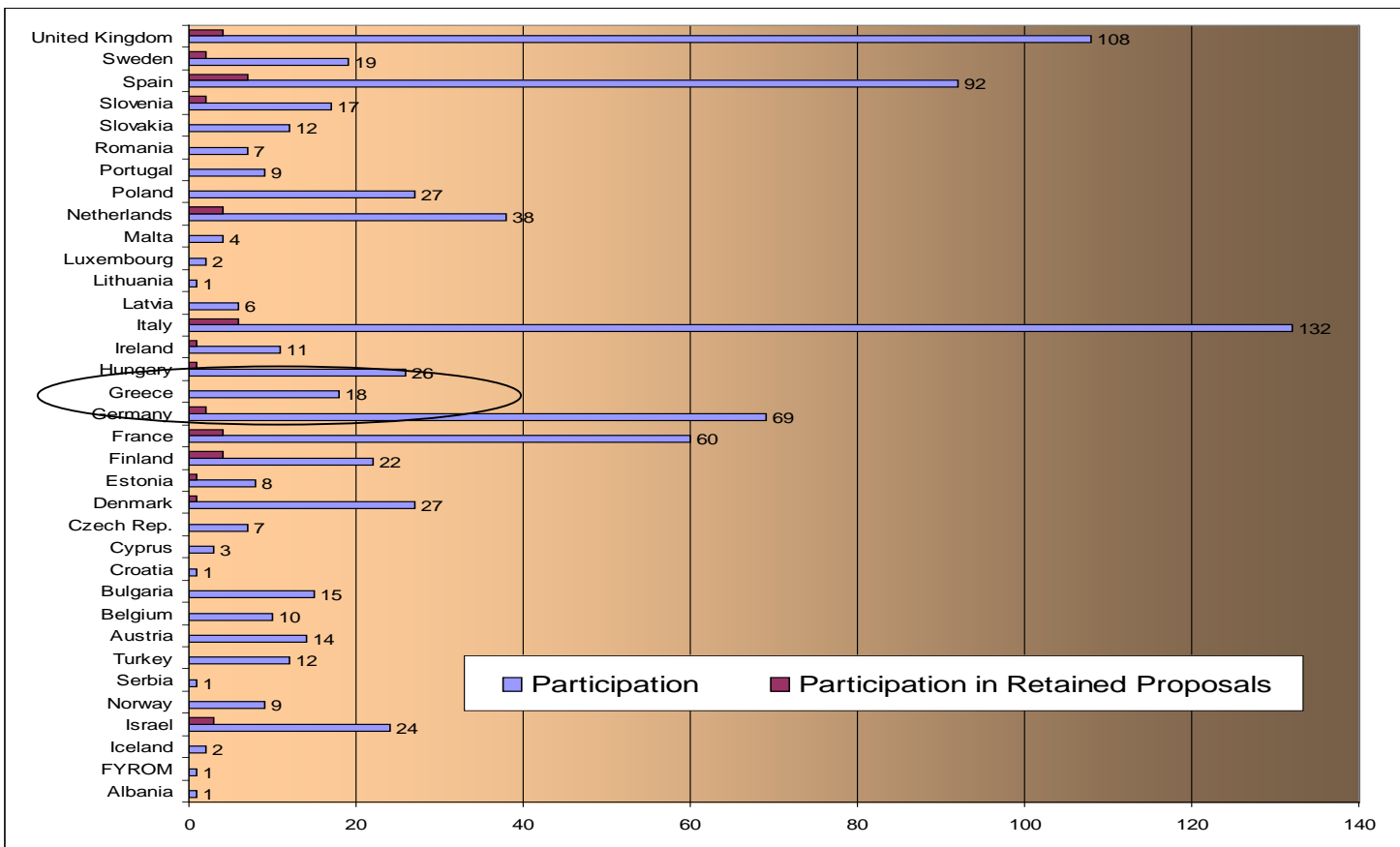
Female
Male





H2020 Calls – “Secure Clean & Efficient Energy”

H2020-SMEINST-180315





H2020 Calls – “Secure Clean & Efficient Energy”

H2020-SMEINST-180315

Evaluated:597

Funded:37

Reserve List:0

Total Cost evaluated: €1.369.479.177,5

Total Budget for Retained Proposals: €100.985.183,25

Total EU contribution for Retained Proposals: €68.583.150,77

EL-retained for funding: 0€





H2020 Calls – “Secure Clean & Efficient Energy”

H2020 – SME – 1-2015

Cut-off date: 17 September 2015 / Budget: m€ 259,87

Retained for Funding: 6,6% of evaluated (122proposals)

EL participation in retained proposals:1

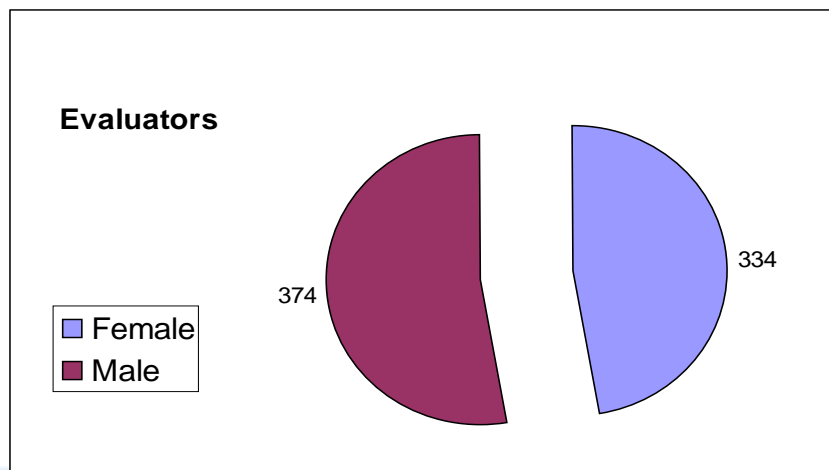
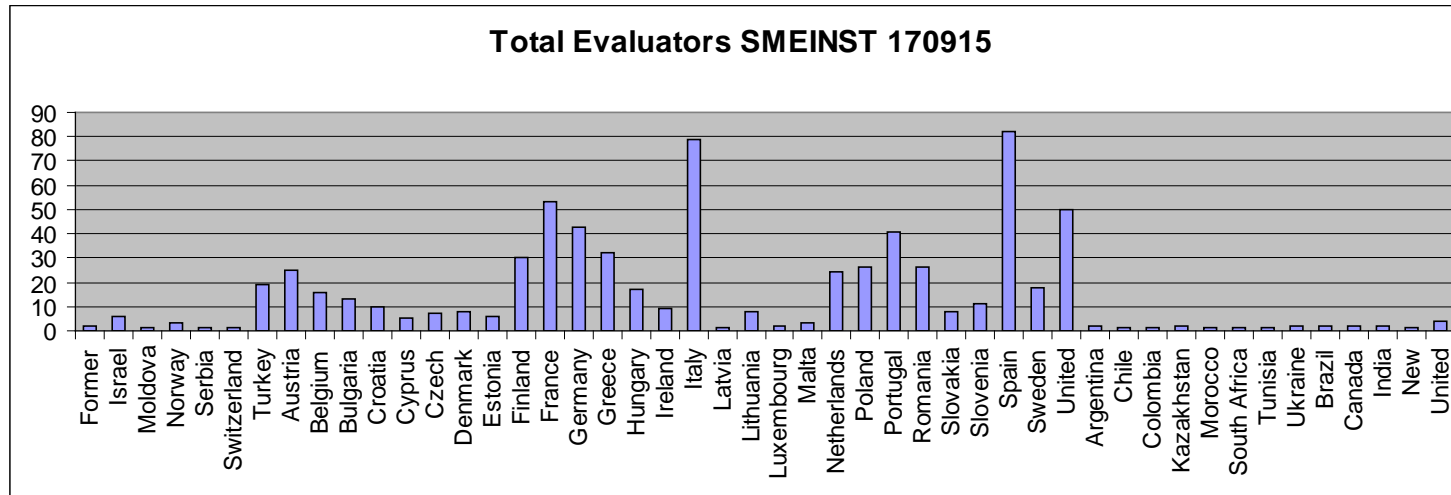
EC funding contribution: m€6

ICT-37, NMP-25, BIOTEC-5, SME-SPACE-1, PHC-12, SFS-8, BG-12,SIE-1, IT-1, SC5-20, INSO-9, INSO-10, DRS-17 (all SME types of action)



H2020 Calls – “Secure Clean & Efficient Energy”

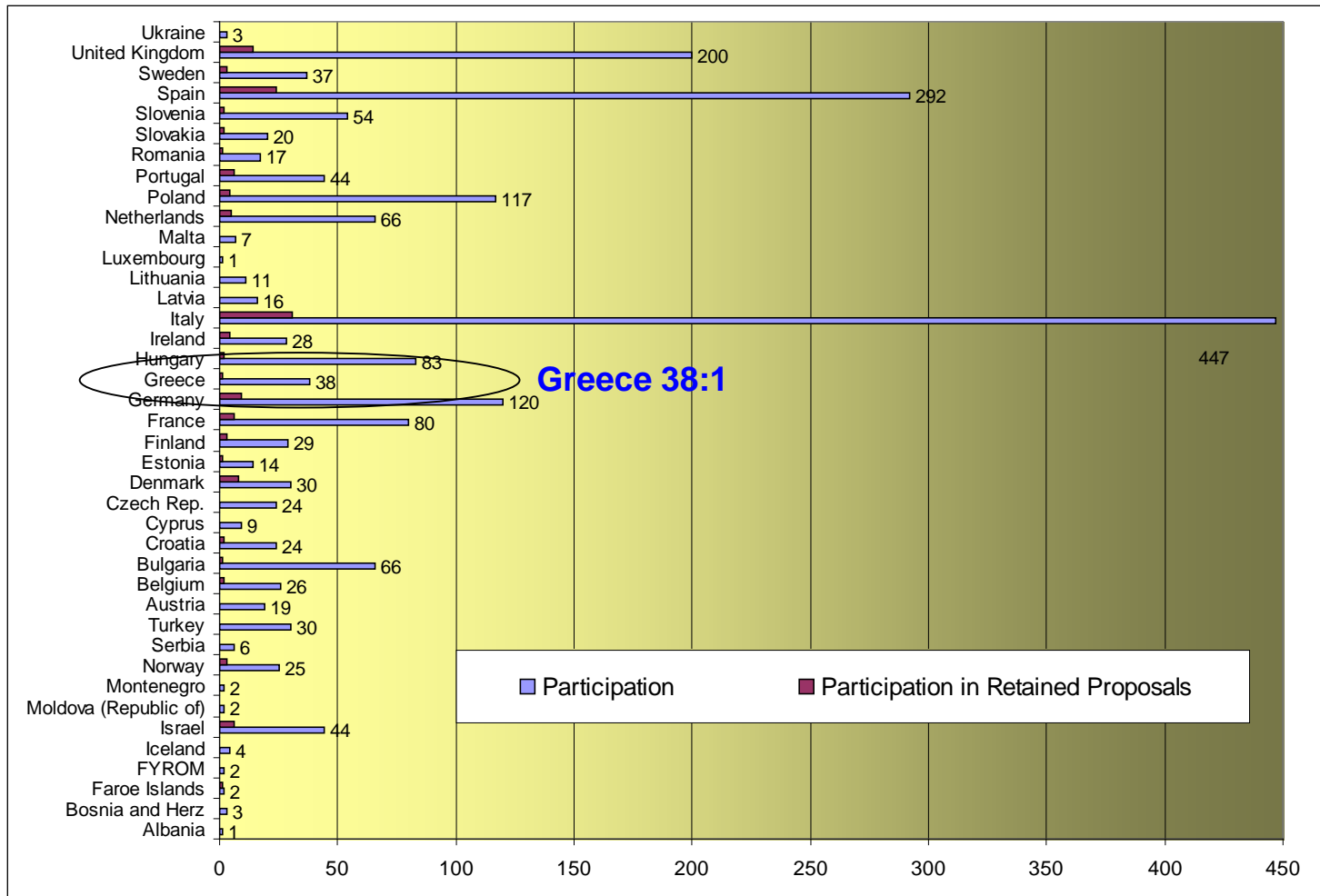
H2020-SMEINST-170915





H2020 Calls – “Secure Clean & Efficient Energy”

H2020-SMEINST-170915





H2020 Calls – “Secure Clean & Efficient Energy”

H2020-SMEINST-170915

Evaluated:1861

Funded: 122

Reserve List:0

Total Cost evaluated: €132.929.369,00

Total Budget for Retained Proposals: €8.714.33,00

Total EU contribution for Retained Proposals: €6.100.000,00

EL-retained for funding: no info available yet (1 “Private for Profit” coordinator)





Summary Results for Greece

- 195 overall participations
- 0,4% of the budget (m€2,2+) requested by successful participants
- 13 participations in 10 retained proposals
- 9 different entities
- 2 “private for profit” coordinators
- 4 SMEs in retained proposals
- Successful participation in
 - LCE11 (Developing next generation technologies for biofuels and sustainable alternative fuels)
 - LCE14 (Coordination and Support Actions)
 - LCE18 (Supporting Joint Actions on demonstration and validation of innovative energy solutions)
 - LCE21 (Modelling and analysing the energy system, its transformation and Impacts)
 - CERFS Energy CSA *and*
 - SFS-08 (Resource-efficient eco-innovative food production and processing)



Topic	Type of Action	Acronym	Title	Role	Legal Name	Legal Type	Total Cost	Requested EU Contribution
LCE-11-2015	RIA	WASTE2FUELS	Sustainable production of next generation biofuels from waste streams	Partner	HEL BIO - ELVIO ANONYMI ETAIREIA SYSTIMATON PARAGOGIS YDROGONOU KAI ENERGEIAS	Private for Profit	181.976,25 €	181.976,25 €
LCE-14-2015	CSA	Biomassud Plus	Developing the sustainable market of residential Mediterranean solid biofuels.	Partner	CERTH - ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	Research Organisation	276.092,50 €	276.092,50 €
LCE-14-2015	CSA	ISABEL	Triggering Sustainable Biogas Energy Communities through Social Innovation	Coordinator	Q-PLAN INTERNATIONAL ADVISORS EPE	Private for Profit	307.250,00 €	307.250,00 €
				Partner	EBW - EUROENERGY BIOGAS WEST SOCIETE ANONYME PRODUCTION AND TRADING OF ELECTRICAL ENERGY	Other	171.250,00 €	171.250,00 €
LCE-14-2015	CSA	SEEMLA	Sustainable exploitation of biomass for bioenergy from marginal lands in Europe	Partner	DUTH - DEMOCRITUS UNIVERSITY OF THRACE	Higher or Secondary Education	167.525,00 €	167.525,00 €
				Partner	DECENTRALISED ADMINISTRATOR OF MACEDONIA & THRACE	Other	164.975,00 €	164.975,00 €
LCE-14-2015	CSA	uP_running	Take-off for sustainable supply of woody biomass from agrarian pruning and plantation removal	Partner	CERTH - ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	Research Organisation	255.523,75 €	255.523,75 €
				Partner	PASEGES - PANHELLENIC CONFEDERATION OF UNIONS OF AGRICULTURAL COOPERATIVES SOMATEIO	Other	258.933,75 €	258.933,75 €
LCE-18-2015	ERA-NET-Cofund	ACT	Accelerating CCS technologies as a new low-carbon energy vector	Partner	CERTH - ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	Research Organisation	181.250,00 €	59.812,50 €
LCE-18-2015	ERA-NET-Cofund	SOLAR-ERA.NET Cofund	SOLAR-ERA.NET Cofund	Partner	CRES - CENTRE FOR RENEWABLE ENERGY SOURCES AND SAVING FONDATION	Research Organisation	447.761,00 €	147.761,13 €
LCE-21-2015	RIA	MEDEAS	Guiding European Policy toward a low-carbon economy. Modelling Energy system Development under Environmental And Socioeconomic constraints	Partner	CRES - CENTRE FOR RENEWABLE ENERGY SOURCES AND SAVING FONDATION	Research Organisation	203.205,00 €	203.205,00 €
Energy	CSA	CAIV_EPBD	Concerted Action EPBD IV	Partner	CRES - CENTRE FOR RENEWABLE ENERGY SOURCES AND SAVING FONDATION	Research Organisation	28.020,00 €	28.020,00 €
SFS-08-2015-1	SME-1	VIOTRAP	Elaboration of an Innovative Eco-Friendly Pest Control Method in European Agriculture	Coordinator	EVRIKLIS FITSAKIS	Private for Profit		



Ευχαριστώ για την προσοχή σας!