



**ETSAP**

## *E-TechDS: Completion of the Brief Series*

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IEA-ETSAP regular WS, Cape Town, June 22, 2012



**ETSAP**

### ***Background***

#### Project description:

Conceived in 2009, the ETechDS project started in 2010 aimed to produce and make available a consistent set of data and quantitative information on energy demand/supply technologies for energy analysts (i.e. MARKAL-TIMES users), policymakers, investors and media from both developed and developing countries. The format, the quality, and the extension are innovative.

With the addition of a few indispensable briefs (e.g. electricity transmission and distribution) the total number of briefs has been recently set at 80 (see Annex 1) to cover all major demand and supply energy technology clusters. As of June 2012, 55 briefs have been posted and 12 are in preparation (some of the briefs already commissioned have been delayed, e.g. IRENA briefs). Authors have also been identified for 10 of the remaining 13 briefs to be commissioned, while 3 briefs remain to be assigned.

PRIMARY ENERGY SUPPLY, TRANSPORTATION AND DISTRIBUTION			
P01	Conv. Oil and Gas Production	May 2010	IFE-Norway
P02	Unconv. Oil and Gas Production	May 2010	IFE- Norway
P03	Oil and Gas Logistics	August 2011	IFE- Norway
P04	Oil refineries	Dec. 2012, to be assigned	Gerad Canada, K. Vaillancourt
P05	Syngas from Coal (coal gasific.)	May 2010	IER-Germany
P06	Liquid Fuels from Coal and Gas	May 2010	IER- Germany
P07	Coal Mining and Logistics	Dec. 2012, to be assigned	ETSAP GS?
P08	H2 Production & Distribution	March 2012	CRES –Greece
P09	Biomass Production & Logistics	June 2012, to be assigned	Maryse Labriet
P10	Biofuels Production	January 2012	ETSAP GS
P11	Biogas Production	Sept 2012, to be assigned	Maryse Labriet
P12	Biogas Production for Transportation	Sept 2012	IRENA

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ELECTRICITY & HEAT PRODUCTION, TRANSMISSION AND DISTRIBUTION			
E01	Coal Fired Power Plants	April 2010	ECN – Netherland
E02	Gas Fired Power Plants	April 2010	ECN– Netherland
E03	Nuclear Power	April 2010	ETSAP GS
E04	Combined Heat and Power (CHP)	May 2010	ECN– Netherland
E05	Biomass for Heat & Power	May 2010	ECN– Netherland
E06	Hydro Power	May 2010	ECN– Netherland
E07	Geothermal Power	May 2010	ECN– Netherland
E08	Marine Power	November 2010	ECN– Netherland
E09	Wind Energy	Sept. 2012	IRENA
E10	Concentrated Solar Power	March 2011	ETSAP GS
E11	Photovoltaic	February 2011	ETSAP GS
E12	Nuclear Fuel Mining to Waste Management	Dec 2012, to be assigned	ETSAP GS ?
E13	Fuel Cells	Dec 2012, to be assigned	Adam Hawkes, Imperial Col.
E14	CO <sub>2</sub> Capture & Storage	October 2010	ETSAP GS
E15	Renewable Energy Integration	March 2012	CRES –Greece
E16	District heating systems	March 2012	Chalmers –Sweden
E17	Energy Storage (Thermal)	January 2012	FZ-Bayern - Germany
E18	Energy Storage (Electric)	January 2012	ETSAP
E19	Heat Pumps	March 2012	JHPC – Japan
E20	Electricity Transmission & Distribution	Dec 2012, to be assigned	Gerad, Canada
E21	Biomass Co-firing	In preparation – March 2012	IRENA
E22	Marine Energy Wave Devices	In preparation – Sept 2012	IRENA
E23	Marine Energy Current Devices	In preparation – Sept 2012	IRENA
E24	Energy from Waste	In preparation – Sept 2012	IRENA

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RESIDENTIAL AND COMMERCIAL			
R01	Building shell, Thermal Insulation	June 2012	AEA – UK
R02	Space Heating and Cooling	June 2012	AEA – UK
R03	Water Heating	June 2012	AEA – UK
R04	Lightings (Res & Comm)	January 2012	AEA – UK
R05	Cold Appliances(Res & Comm)	January 2012	AEA – UK
R06	Cooking	June 2012	AEA – UK
R07	Washing Machines (residential)	To be revised, Sept. 2012	AEA – UK
R08	Dish Washing Machines	March 2012	AEA – UK
R09	Dryers	June 2012	AEA – UK
R10	Other electric appliances	June 2012	AEA – UK
R11	Electronic devices	June 2012	AEA – UK
R12	Solar heating and cooling (Res & Comm)	March 2012	IRENA

INDUSTRY			
I01	Industrial Combustion Boilers	May 2010	VITO - Belgium
I02	Iron & Steel	May 2010	VITO - Belgium
I03	Cement Production	June 2010	VITO - Belgium
I04	Non-metallic minerals (Glass)	To be revised	VITO - Belgium
I05	Chemicals (to be split) ??		
I06	Petro-chemicals ??		
I07	Pulp & Paper ??	Dec 2012, to be assigned	Erik Ahlgren, Chalmers
I08	Biomethanol Production	March 2012	IRENA
I09	Electric Motors ??		
I10	Non-Ferrous Metals (Al)	March 2012	IFE- Norway
I11	Solar heating & cooling (industry)	March 2012	IRENA
I12	Desalination	March 2012	IRENA
I13	Bioethylene Production	March 2012	IRENA

TRANSPORTATION			
T01	Adv. Autom. Gasoline Eng.	April 2010	AEA – UK
T02	Adv. Autom. Diesel Eng.	April 2010	AEA – UK
T03	Autom. LPG and Nat. Gas Eng.	April 2010	AEA – UK
T04	Hybrid Vehicles	June 2010	AEA – UK
T05	Electric & Plug-in Hybrid Vehicles	June 2010	AEA – UK
T06	Ethanol IC engines	June 2010	AEA – UK
T07	Hydrogen and Fuel Cell Vehicles	Under Revision	AEA – UK
T08	Light Trucks	January 2011	AEA – UK
T09	Heavy Trucks	January 2011	AEA – UK
T10	Public Transport	January 2011	AEA – UK
T11	Rail Transport	January 2011	AEA – UK
T12	Aviation Transport	January 2011	AEA – UK
T13	Shipping Transport	January 2011	AEA – UK
T14	Road Transport Infrastructures	August 2011	AEA – UK
T15	Rail Infrastructures	June 2011	AEA – UK
T16	Aviation Infrastructures	August 2011	AEA – UK
T17	Shipping Infrastructures	June 2011	AEA – UK
T18	Weight & Drag Reduction (Autom.)	January 2011	AEA – UK
T19	Two-Three Wheelers	Sept. 2012, to be assigned	AEA – UK

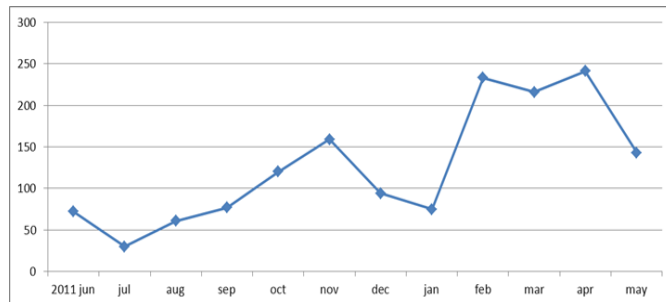
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- Briefs originally planned: 80
- Briefs posted: 55
- Briefs under preparation/revision: 12
- Briefs to be prepared: 13
  - authors identified, can be commissioned* 8
  - authors to be identified* 5

Number of briefs downloaded monthly



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### ETECH DS - REMAINING BRIEFS TO BE ASSIGNED

	Brief title	Sector	proposed by	1st offer (by arrival order)	2nd offer	3rd offer
1	Oil refinery	p	ETSAP	Kathleen Vaillancourt, Gerad	VITO	
2	Coal mining and logistics	p	ETSAP	Kathleen Vaillancourt, Gerad	ETSAP, GS?	
3	Biogas production (excl. transport)	p	IRENA	Maryse Labriet	Adam Hawkes, Imperial Col	Erik Ahlgren
4	Biomass production and logistic	p	ETSAP	Maryse Labriet		
5	Electricity transmission & distrib.	e	ETSAP	Kathleen Vaillancourt, Gerad		
6	Fuel cells	e	ETSAP	Kathleen Vaillancourt	Adam Hawkes, Imperial Col	Erik Ahlgren
7	Nuclear Fuel: Mining to Waste Man.	e	ETSAP	ETSAP, GS?		
8	Chemicals (to be split ?)	i	ETSAP	NO offer		
9	Petro-chemicals (to be split ?)	i	ETSAP	NO offer		
10	Electric motors	i	ETSAP	NO offer		
11	Pulp and paper	i	ETSAP	Erik Ahlgren, Chalmers		
12	Two- and three-wheelers	t	AEA	AEA		
<b>Needs revision</b>						
13	Laundry washers (completion)	r	ETSAP	AEA		
<b>Offers received, on briefs not (yet) included in the list of 80</b>						
	Brief title	Sector	proposed by	offers		
14	Auxiliary power units (transport)	t	AEA	AEA		
15	Agriculture	i	AEA	AEA ? (more details needed)		
16	ICT infrastructure	i	AEA	AEA		
17	Machine tools	i	AEA	AEA ? (more details needed)		

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1. Deliverables: 13 (or 10) briefs
2. Cost estimate: €91k (or €70k)
3. Time schedule: December 2012
4. Expected benefit for ETSAP:

Further to the benefits for ETSAP modelling tools users, E-TechDS increasingly gives ETSAP external visibility among energy technology experts, academics and decision makers, as suggested by the increasing number of downloads

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