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ANNEX 1

**ANNEX**

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**COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN  
PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL  
COMMITTEE, THE COMMITTEE OF THE REGIONS AND THE EUROPEAN  
INVESTMENT BANK**

**Third Report on the State of the Energy Union**

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## Annex 1 - Updated Roadmap for the Energy Union – State of play: 23 November 2017

Key: SoS: Security of Supply / IEM: Internal Energy Market / EE: Energy Efficiency / GHG: Greenhouse gases / R&I: Research and Innovation

This roadmap is the one presented in the annex to the Commission Communication "A Framework Strategy for a Resilient Energy Union with a Forward-Looking Climate Change Policy", adopted on 25 February 2015 (COM(2015)80) and updated in November 2015 in the context of the 1<sup>st</sup> State of the Energy Union (COM(2015)572) and in February 2017 in the context of the 2<sup>nd</sup> State of the Energy Union (COM(2017) 53). New information in this table relates to the last column, which provides an update for those initiatives which have already been adopted or where the time schedule changed. It does not provide any new information on initiatives originally planned for 2017 or later.

Actions	Responsible party	Timetable (shown in the annex to COM(2015)80)	SoS	IEM	EE	GHG	R&I	Comments / Update
<b>Infrastructure</b>								
Effective implementation of the 10% electricity interconnection target	Commission Member States National Regulatory Authorities Transmission System Operators	2015-20	X	X		X		<i>Adopted on 25 February 2015 (COM(2015)82)</i>
2 <sup>nd</sup> list of Projects of Common Interest (PCI) – leading to	Commission Member States	2015	X	X		X		<i>Delegated act adopted on 18 November 2015</i>

Actions	Responsible party	Timetable (shown in the annex to COM(2015)80)	SoS	IEM	EE	GHG	R&I	Comments / Update
Commission Delegated Act								<p><i>(C(2015)8052)</i></p> <p><i>An evaluation of the implementation of the Projects of Common Interest and of the Regulation on guidelines for trans-European energy infrastructure took place in 2017</i></p> <p><i>The 3<sup>rd</sup> list of Projects of Common Interest is published together with the 3<sup>rd</sup> report on the State of the Energy Union</i></p>
Communication on the progress towards the completion of the list of the most vital energy infrastructures and on the necessary measures to reach the 15% electricity interconnection target for 2030	Commission	2016	X	X				<p><i>Adopted together with the 3<sup>rd</sup> list of Projects of Common Interest on the same day as the 3<sup>rd</sup> report on the State of the Energy Union</i></p>

<b>Actions</b>	<b>Responsible party</b>	<b>Timetable</b> (shown in the annex to COM(2015)80)	<b>SoS</b>	<b>IEM</b>	<b>EE</b>	<b>GHG</b>	<b>R&amp;I</b>	<b>Comments / Update</b>
Establish an Energy Infrastructure Forum	Commission Member States	2015	X	X				<i>First meeting of the Energy Infrastructure Forum took place 9-10 November 2015 in Copenhagen; a second meeting took place 23-24 June 2016; the third meeting took place 1-2 June 2017</i>
<b>Electricity</b>								
Initiative on market design and regional electricity markets, and coordination of capacities to ensure security of supply, boosting cross-border trade and facilitating integration of renewable energy	Commission	2015-2016	X	X	X	X		<i>Consultative Communication adopted on 15 July 2015 (COM(2015)340)</i>  <i>Legislative proposals adopted on 30 November 2016 (COM(2016) 861 (Electricity Regulation) and COM(2016) 864 (Electricity Directive))</i>  <i>Final Report on the Sector Inquiry on Capacity</i>

<b>Actions</b>	<b>Responsible party</b>	<b>Timetable</b> (shown in the annex to COM(2015)80)	<b>SoS</b>	<b>IEM</b>	<b>EE</b>	<b>GHG</b>	<b>R&amp;I</b>	<b>Comments / Update</b>
								<i>Mechanisms adopted on 30 November 2016 (COM(2016) 752)</i>  Inter-institutional negotiations on the legislative files on-going
Review of the Directive concerning measures to safeguard security of electricity supply	Commission	2016	X	X		X		<i>Legislative proposals adopted on 30 November 2016 (COM(2016) 862)</i>  Inter-institutional negotiations on the legislative files on-going
<b>Retail</b>								
New Deal for energy consumers: Empowering consumers, deploying Demand Side Response; using smart technology; linking wholesale and retail markets; phase-out of regulated prices; flanking measures to protect	Commission Member States	2015-2016		X	X	X	X	<i>Communication adopted on 15 July 2015 (COM(2015)339)</i>  <i>Legislative proposals on consumer issues included in the proposals on the new</i>

<b>Actions</b>	<b>Responsible party</b>	<b>Timetable</b> (shown in the annex to COM(2015)80)	<b>SoS</b>	<b>IEM</b>	<b>EE</b>	<b>GHG</b>	<b>R&amp;I</b>	<b>Comments / Update</b>
vulnerable customers								<i>electricity market design (see above)</i>
<b>Gas</b>								
Revision of the Regulation on security of gas supply	Commission	2015-2016	X	X				<i>Legislative proposals adopted on 16 February 2016 (COM(2016)52) –  Regulation 2017/1938 adopted and published in the Official Journal on 28 October 2017 (OJ L 198, 28.10.2017, p. 1–56)</i>
Liquefied Natural Gas and Storage strategy	Commission	2015-2016	X					<i>Communication adopted on 16 February 2016 (COM(2016)49)</i>
<b>Regulatory framework</b>								
Review of the Agency for the Cooperation of Energy Regulators (ACER) and the energy regulatory	Commission	2015-16	X	X		X		<i>Covered by the Consultative Communication adopted on 15 July 2015</i>

Actions	Responsible party	Timetable (shown in the annex to COM(2015)80)	SoS	IEM	EE	GHG	R&I	Comments / Update
framework								<p><i>(COM(2015)340)</i></p> <p><i>Legislative proposal adopted on 30 November 2016 (COM(2016) 863)</i></p> <p><i>On the inter-institutional state of play, see above on the electricity market design</i></p>
<b>Renewables</b>								
Renewable Energy Package: including a new Renewable Energy Directive for 2030; best practices in renewable energy self-consumption and support schemes; bioenergy sustainability policy.	Commission	2015-2017	X	X		X		<p><i>Best practice guidelines for renewable energy self-consumption adopted on 15 July 2015 (SWD(2015)141), accompanying the Communication COM(2015)339 "Delivering a New Deal for Energy Consumers"</i></p> <p><i>Legislative proposal adopted on 30 November</i></p>

Actions	Responsible party	Timetable (shown in the annex to COM(2015)80)	SoS	IEM	EE	GHG	R&I	Comments / Update
								<p>2016 (COM(2016) 767)</p> <p>Inter-institutional negotiations on the legislative files on-going</p>
Communication on Waste to Energy	Commission	2016	X			X		<p>Communication adopted on 26 January 2017 (COM(2017) 34)</p>
<b>Climate Action</b>								
Legislative proposal to revise the EU Emissions Trading System, 2021-2030	Commission	2015	X	X		X		<p>Proposal adopted on 15 July 2015 (COM(2015)337)</p> <p>Political agreement was reached in inter-institutional negotiations on 8 November 2017</p> <p>Legislative proposal on the scope of the EU emissions trading system for aviation adopted on 3 February</p>



Actions	Responsible party	Timetable (shown in the annex to COM(2015)80)	SoS	IEM	EE	GHG	R&I	Comments / Update
								<p><i>(COM(2017) 54)</i></p> <p>Political agreement was reached in inter-institutional negotiations on 8 November 2017</p>
Legislative proposals on the Effort-Sharing Decision and the inclusion of Land Use, Land Use Change and Forestry (LULUCF) into the 2030 Climate and Energy Framework	Commission	2016				X		<p><i>Legislative proposals adopted on 20 July 2016 (COM(2016) 482 (non-ETS); COM(2016) 479 (LULUCF))</i></p> <p>Inter-institutional negotiations on-going</p>
<b>Transport actions</b>								
Fair and efficient pricing for sustainable transport – revision of the Eurovignette Directive and framework to promote European electronic tolling	Commission	2016			X	X		<p><i>Adopted on 31 May 2017 (COM/2017/275 and COM/2017/280 )</i></p>

<b>Actions</b>	<b>Responsible party</b>	<b>Timetable</b> (shown in the annex to COM(2015)80)	<b>SoS</b>	<b>IEM</b>	<b>EE</b>	<b>GHG</b>	<b>R&amp;I</b>	<b>Comments / Update</b>
Review of market access rules for road transport to improve its energy efficiency	Commission	2016			X	X		<i>Adopted on 31 May 2017 (COM/2017/281)</i>
Master Plan for the deployment of Cooperative Intelligent Transport Systems	Commission Member States Industry	2016			X	X	X	<i>Communication adopted on 30 November 2016 (COM(2016) 766)</i>
Review of Regulations setting emission performance standards to establish post-2020 targets for cars and vans	Commission	2016 - 2017			X	X	X	<i>Legislative proposal adopted on 8 November 2017 (COM(2017) 676 final)</i>
Establishing a monitoring and reporting system for heavy duty vehicles (trucks and buses) with a view to improving purchaser information	Commission	2016-2017			X	X	X	<i>Adopted on 31 May 2017 (COM/2017/279)</i>
Review of Directive on the Promotion of Clean and Energy	Commission	2017			X	X		<i>Legislative proposal adopted on 8 November 2017 (COM(2017) 653)</i>

<b>Actions</b>	<b>Responsible party</b>	<b>Timetable</b> (shown in the annex to COM(2015)80)	<b>SoS</b>	<b>IEM</b>	<b>EE</b>	<b>GHG</b>	<b>R&amp;I</b>	<b>Comments / Update</b>
Efficient Road Transport Vehicles								<i>final)</i>
Communication on decarbonising the transport sector, including an action plan on second and third generation biofuels and other alternative, sustainable fuels	Commission	2017			X	X	X	<p><i>Communication on the European Strategy for low-emission mobility adopted on 20 July 2016 (COM(2016)501)</i></p> <p><i>Fuel element partly covered by the legislative proposal adopted on 30 November 2016 (COM(2016) 767 (Renewables Directive))</i></p> <p><i>Communication "Towards the broadest use of alternative fuels – an Action Plan on Alternative Fuels Infrastructure" adopted on 8 November 2017 (COM(2017) 652 final )</i></p>
<b>Energy efficiency</b>								
Review of the Energy Efficiency	Commission	2016	X		X	X	X	<i>Legislative proposals adopted on 30 November</i>

Actions	Responsible party	Timetable (shown in the annex to COM(2015)80)	SoS	IEM	EE	GHG	R&I	Comments / Update
Directive								<p>2016 (COM(2016) 761)</p> <p>Inter-institutional negotiations on the legislative files on-going</p> <p><i>Staff Working Document on good practices in energy efficiency (SWD(2016) 404</i></p>
Review of the Directive on Energy Performance of Buildings including Smart Finance for Smart Buildings initiative	Commission	2016	X		X	X	X	<p><i>Legislative proposals adopted on 30 November 2016 (COM(2016) 765;</i></p> <p>Inter-institutional negotiations on the legislative files on-going</p> <p><i>Smart financing for smart buildings is part of the Buildings initiative (Annex 1 of Communication COM(2016) 860)</i></p>

Actions	Responsible party	Timetable (shown in the annex to COM(2015)80)	SoS	IEM	EE	GHG	R&I	Comments / Update
Review of the energy efficiency framework for products (Energy Labelling Directive and Ecodesign Directives)	Commission	2015	X		X	X	X	<p><i>Energy Labelling Regulation proposal adopted on 15 July 2015 (COM(2015)341)</i></p> <p><i>Regulation 2017/1369 adopted; published in the Official Journal on 28 July 2017 (OJ L 198, 28.7.2017, p. 1–23)</i></p> <p><i>Ecodesign work plan adopted on 30 November 2016 (COM(2016) 773); 8 measures adopted at the same time</i></p>
Strengthening the targeted use of financial instruments to support investments in energy efficiency	Commission	2015-			X	X		<p><i>Communication "Europe investing again – Taking stock of the Investment Plan for Europe and next steps" adopted on 1 June 2016 (COM(2016) 359).</i></p> <p><i>Communication</i></p>

Actions	Responsible party	Timetable (shown in the annex to COM(2015)80)	SoS	IEM	EE	GHG	R&I	Comments / Update
								<p><i>"Strengthening European Investments for jobs and growth: Towards a second phase of the European Fund for Strategic Investments and a new European External Investment Plan" adopted on 14 September 2016 (COM(2016) 581)</i></p> <p><i>Legislative proposal on the extension of the European Fund for Strategic Investment (EFSI) Regulation (COM(2016) 597)</i></p> <p><i>Legislative proposal on the revision of the Financial Regulation and a number of sectoral regulations for further simplification and flexibility, including for more effective use of financial instruments</i></p>

Actions	Responsible party	Timetable (shown in the annex to COM(2015)80)	SoS	IEM	EE	GHG	R&I	Comments / Update
								<p><i>(COM(2016) 605)</i></p> <p><i>See also the enabling actions, including the buildings initiative, included in the 'Clean Energy for all Europeans' package of 30 November 2016 (COM(2016) 860, Annex 1)</i></p>
<b>Heating and Cooling</b>								
EU strategy for Heating and Cooling – the contribution from heating and cooling in realising the EU's energy and climate objectives	Commission	2015	X	X	X	X	X	<p><i>Communication adopted on 16 February 2016 (COM(2016)51)</i></p> <p><i>Covered in the legislative proposals which were part of the 'Clean Energy for all Europeans' package of 30 November 2016</i></p>
<b>External Energy and Climate</b>								

Actions	Responsible party	Timetable (shown in the annex to COM(2015)80)	SoS	IEM	EE	GHG	R&I	Comments / Update
<b>Policy</b>								
EU Energy and Climate policy diplomacy	Commission HR/VP Member States	2015	X	X		X	X	<p><i>Council conclusions on climate diplomacy adopted by the Foreign Affairs Council on 20 July 2015 (11029/15)</i></p> <p><i>Council conclusions on energy diplomacy adopted by the Foreign Affairs Council on 20 July 2015 (10995/15)</i></p> <p><i>Council conclusions on European climate diplomacy after COP21 adopted by the Foreign Affairs Council on 15 February 2016 (6061/16)</i></p> <p><i>Council conclusions on Energy and Development adopted by the Foreign Affairs Council (Development) on 28</i></p>



Actions	Responsible party	Timetable (shown in the annex to COM(2015)80)	SoS	IEM	EE	GHG	R&I	Comments / Update
								<p><i>November 2016 (14839/16)</i></p> <p><i>Council Conclusions on strengthening the synergies between EU energy and climate diplomacies adopted by the Foreign Affairs Council on 6 March 2017 (6981/17)</i></p>
<p>Review of the Decision on information exchange mechanism with regard to intergovernmental agreements between Member States and third countries in the field of energy</p>	<p>Commission HR/VP</p>	<p>2016</p>	<p>X</p>	<p>X</p>				<p><i>Proposal for a Decision of the EP and of the Council adopted on 16 February 2016 (COM(2016)53)</i></p> <p><i>Decision (EU) 2017/684 adopted and published in the Official Journal on 12.4.2017 (OJ L 99, p. 1–9)</i></p>
<p>New and strengthened energy dialogues with countries of importance for EU energy policy</p>	<p>Commission HR/VP</p>	<p>2015 -</p>	<p>X</p>	<p>X</p>	<p>X</p>	<p>X</p>	<p>X</p>	<p>On-going</p>
<p>Memorandum of Understanding</p>	<p>Commission</p>	<p>2015</p>	<p>X</p>	<p>X</p>				<p><i>Signed during the EU-</i></p>

Actions	Responsible party	Timetable (shown in the annex to COM(2015)80)	SoS	IEM	EE	GHG	R&I	Comments / Update
on an upgraded strategic partnership with Ukraine	HR/VP European Parliament Council							<i>Ukraine Summit on 24 November 2016</i>
Trilateral Memorandum of Understanding on the Trans-Caspian pipelines with Azerbaijan and Turkmenistan	Commission HR/VP European Parliament Council	2015	X	X				<i>Ashgabat Declaration by Turkmenistan, Turkey, Azerbaijan and Georgia signed on 1 May 2015; no further negotiations take place on a trilateral MoU</i>
Initiative to strengthen the Energy Community	Commission Energy Community Contracting Parties HR/VP	2015	X	X				<i>Key decisions taken at the Ministerial Council of the Energy Community in October 2015 and September 2016</i>  <i>Extraordinary Ministerial Council on Treaty Amendments (1st half 2018), including Reciprocity issue.</i>

<b>Actions</b>	<b>Responsible party</b>	<b>Timetable</b> (shown in the annex to COM(2015)80)	<b>SoS</b>	<b>IEM</b>	<b>EE</b>	<b>GHG</b>	<b>R&amp;I</b>	<b>Comments / Update</b>
Strengthen Euromed cooperation on gas, electricity, energy efficiency and renewables	Commission HR/VP	2015-2016	X	X				<i>Gas platform launched in June 2015</i>  <i>Regional electricity market platform launched in October 2015</i>  <i>Renewables and energy efficiency platform launched in 2016</i>
Adoption and signature of a new International Energy Charter on behalf of the EU and EURATOM	Commission HR/VP	2015	X	X				<i>The International Energy Charter was co-signed by the European Commission at the Conference on 20-21 May 2015 in The Hague.</i>
<b>Industrial competitiveness</b>								
A new European energy R&I approach to accelerate energy system transformation, composed of  - an integrated Strategic Energy	Commission	2015-2017					X	<i>Communication on the Strategic Energy Technology (SET) Plan adopted on 15 September 2015 (C(2015)6317)</i>

Actions	Responsible party	Timetable (shown in the annex to COM(2015)80)	SoS	IEM	EE	GHG	R&I	Comments / Update
<p>Technology (SET) Plan</p> <p>- a strategic transport R&amp;I agenda</p>								<p><i>Smart Specialisation Platform on Energy launched in 2015</i></p> <p><i>Communication "Accelerating Clean Energy Innovation" adopted on 30 November 2016 (COM(2016) 763)</i></p> <p><i>Communication "Strengthening Innovation in Europe's Regions: Strategies for resilient, inclusive and sustainable growth" adopted on 18 July 2017 (COM(2017) 376)</i></p> <p><i>Staff Working Document (SWD (2017)223) "Towards clean, competitive and connected mobility: the contribution of Transport Research and Innovation to the Mobility package" adopted on 31</i></p>

Actions	Responsible party	Timetable (shown in the annex to COM(2015)80)	SoS	IEM	EE	GHG	R&I	Comments / Update
								<i>May 2017 as part of the EU Mobility Package "Europe on the Move" (COM(2017) 283)</i>
Analysis of energy prices and costs (including taxes and subsidies)	Commission	2016 and every 2 years thereafter		X				<i>Report adopted on 30 November 2016 (COM(2016) 769) - The next report is scheduled to be adopted in 2018, Q4</i>
Initiative on EU global technology and innovation leadership on energy and climate to boost growth and jobs	Commission	2015-2016			X	X	X	<i>Linked to the acceleration of clean energy innovation: see above the Communication COM(2016) 763; see also the "Chapeau Communication" COM(2016)860 of the "Clean Energy For All Europeans" package, adopted on 30 Nov 2016, Annex 2: Action to boost the clean energy transition</i>

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Enhanced trade policy to facilitate export of EU technologies	Commission	2015-2019	X	X			X	On-going
<b>Cross cutting measures</b>								
Review of the Guidelines on State aid for environmental protection and energy	Commission	2017-2019	X	X	X	X	X	
Report on the European Energy Security Strategy; including a platform and roadmap for Euromed and strategies for LNG, energy storage, and the Southern gas corridor	Commission	2015-2016	X	X	X	X	X	<p><i>Report (SWD) adopted on 18 November 2015 (SWD(2015)404)</i></p> <p><i>Communication on LNG and storage adopted on 16 February 2016 (COM(2016)49)</i></p> <p><i>A Staff Working Document on Energy Storage in the Electricity System has been adopted on 01 Feb 2017: SWD(2017)61</i></p>

<b>Actions</b>	<b>Responsible party</b>	<b>Timetable</b> (shown in the annex to COM(2015)80)	<b>SoS</b>	<b>IEM</b>	<b>EE</b>	<b>GHG</b>	<b>R&amp;I</b>	<b>Comments / Update</b>
Data, analysis and intelligence for the Energy Union: initiative pooling and making easily accessible all relevant knowledge in the Commission and Member States	Commission	2016	X	X	X	X	X	On-going  <i>Regulation (EU) 2016/1952 on European statistics on natural gas and electricity prices adopted</i>
<b>Nuclear</b>								
Council Regulation updating the information requirements of Article 41 of the Euratom Treaty in the light of the European Energy Security Strategy	Commission	2015	X	X				Planned for 2018
Communication on a nuclear illustrative programme (PINIC) pursuing Article 40 of the Euratom Treaty	Commission	2015	X			X		<i>Communication adopted on 4 April 2016 for consultation of the European Economic and Social Committee (EESC) (COM(2016)177)</i>  <i>Final version, taking into account the opinion of the European Economic and</i>

Actions	Responsible party	Timetable (shown in the annex to COM(2015)80)	SoS	IEM	EE	GHG	R&I	Comments / Update
								<i>Social Committee (EESC), adopted on 12 May 2017 (COM(2017) 237)</i>