# The European Energy Research Alliance

Anita Schneider Communications Manager

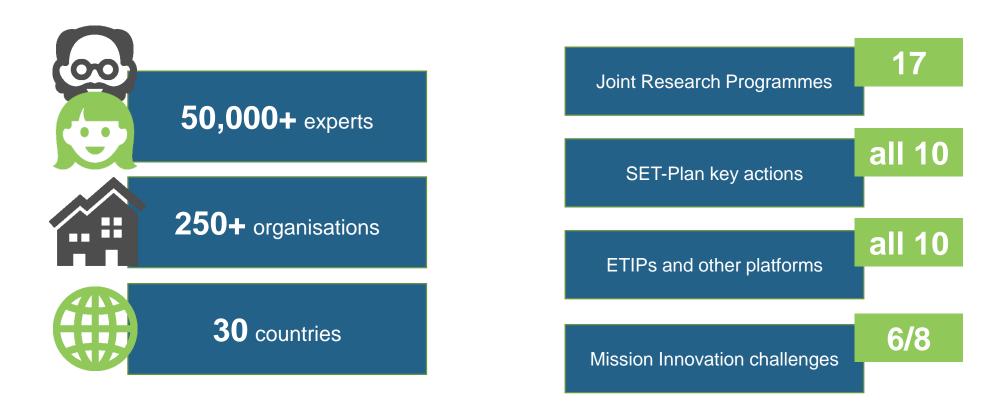
// 1 October 2019







### The largest energy research community in Europe











#### **EERA Secretariat**



Adel El Gammal Secretary General



**Goran Rakonjac** Office Manager Anita Schneider Communications & Project Manager



Ivan Matejak Project Manager



**Elena Dufour** Project Manager

EU Projects



Valentina Lisi Project Manager



Flaminia Riccioni Capelli JP Wind



Benjamin Wyniger CEA

**EU Projects** 

Seconded



Alexandre Metereau Intern



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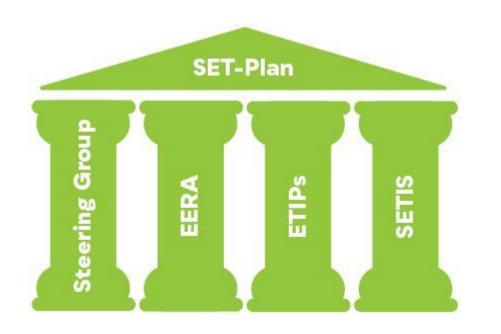
### The EU Strategic Energy Technology Plan (I)

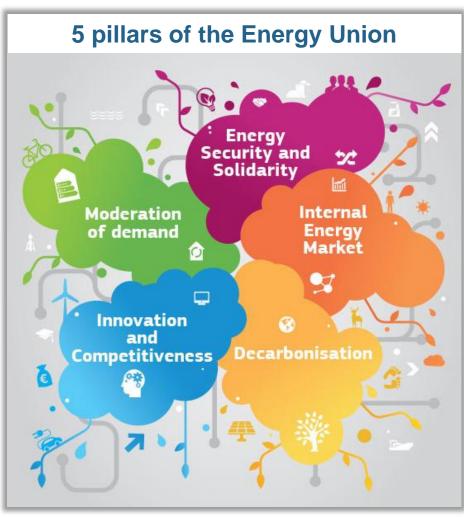
#### **5 pillars of the Energy Union 10 Juncker priorities** A new boost for jobs, growth and investment. Energy Security and Solidarity 22 A connected digital single market. 02 G Moderation Internal of demand Energy Market 0 A resilient Energy Union with a forward-looking climate change policy. Innovation ~ and A deeper and fairer internal market Decarbonisation Competitiveness, 04with a strengthened industrial base. 000 A deeper and fairer Economic and Monetary Union (EMU).



#### The EU Strategic Energy Technology Plan (II)

SET-Plan = Strategic Energy Technology Plan (since 2008, revised in 2015)

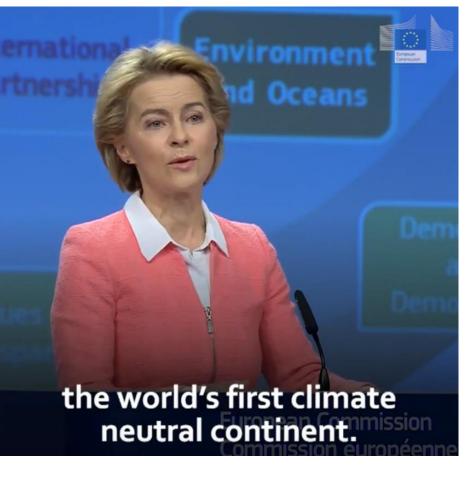






#### From the SET-Plan to the EU 2050 strategy







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# Catalysing European energy research for a climate-neutral society by 2050

- EERA undertakes integration and knowledge transfer among European energy research stakeholders to increase efficiency in R&I and create a momentum larger than the sum of the individual stakeholders
- We are an integrated part of the European energy R&I ecosystem
- We build on our unique expertise to advise EU and MS/AC on long-term decarbonisation scenarios and R&I investment priorities

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# mission



Where the research happens The 17 EERA Joint Programmes



# SYSTEMS<sup>11</sup>

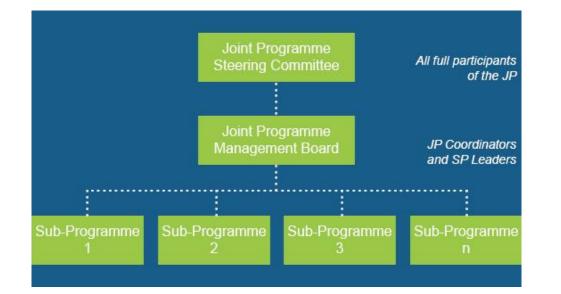
### TECHNOLOGIES

### MATERIALS





### The EERA Joint Programmes



#### Photovoltaic Solar Energy

Have a look at the participants/associates

#### Full participants (32):

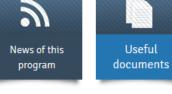
- Austria: <u>AIT</u>
- Belgium: BERA, IMEC
- Czech Republic: <u>CVŘ</u>
- Denmark: <u>DTU</u>
- Estonia: TTU
- France: <u>CEA</u>, <u>CNRS</u>
- Germany: FZJ, Fraunhofer, HZB, ZSW, HGF, FVB, RWTH-ISEA
- Greece: <u>CRES</u>
- Italy: <u>ENEA</u>, <u>UNIMIB</u>, <u>UTV</u>
- Netherlands: <u>ECN</u>, <u>NERA</u>
- Norway: IFE
- Portugal: <u>LNEG</u>
- Spain: CIEMAT, UPM, CENER, TECNALIA
- Switzerland: <u>EPFL</u>
- Turkey: <u>METU</u>, <u>TUBITAK</u>
- United Kingdom: <u>NPL</u>, <u>UKERC</u>

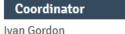
#### Associated participants (8):

- Finland: VTT
- Italy: <u>UNIPI</u>, <u>UNITO</u>
- Netherlands: <u>Utrecht University</u>
- Norway: <u>NTNU</u>, <u>SINTEF</u>
- Spain: <u>UPV</u>, <u>ICIQ</u>

#### STRUCTURE

- SP1 Silicon Technology -> Erik Marstein (IFE), <u>Erik.Stensrud.Marstein@ife.no</u>
- **SP2** Thin-film inorganic photovoltaics -> Iver Lauermann (HZB), <u>iver.lauermann@helmholtz-berlin.de</u>
- SP3 Hybrid and organic photovoltaics -> Suren Gevorgyan (DTU), <u>surg@dtu.dk</u> and Aldo Di Carlo (Tor Vergata University Rome), <u>aldo.dicarlo@uniroma2.it</u>
- **SP4** Concentrated photovoltaics (CPV) -> Ignacio Anton (UPM), <u>nacho@ies-def.upm.es</u> and Andrea Pucci (University of Pisa), <u>andrea.pucci@unipi.it</u>
- **SP5** PV systems -> Christoph Mayr (AIT), <u>christoph.mayr@ait.ac.at</u>
- **SP6** PV durability and reliability -> Ralph Gottschalg (Fraunhofer), <u>Ralph.Gottschalg@csp.fraunhofer.de</u>
- SP7 Research infrastructures, mobility and training -> Ivan Gordon (imec), gordoni@imec.be





🖂 e-mail

Launched





#### Contact at EERA

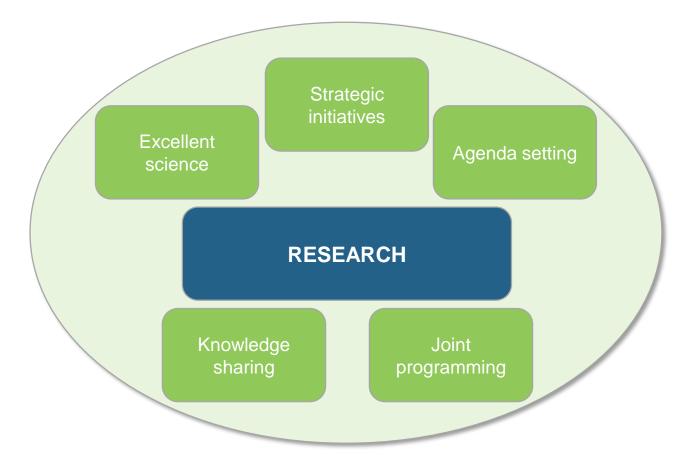
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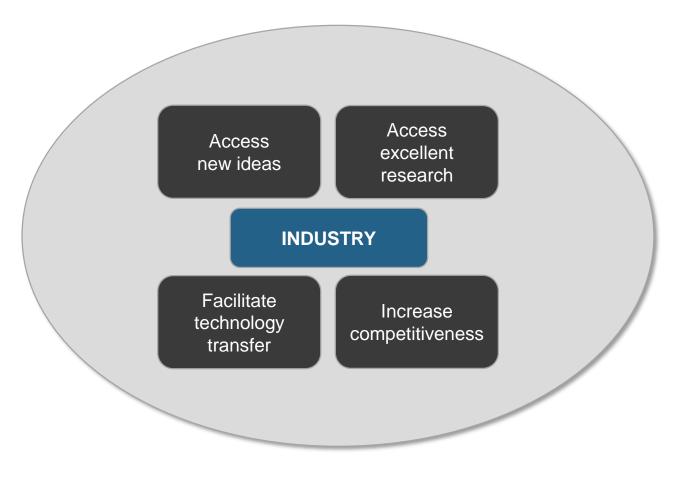
### Why do researchers work in EERA?







#### What's in it for industry?





#### Success story: Joint Programme on Wind Energy

- ▶ JP Wind = 55+ members / 18 countries collaboratively driving research and sharing knowledge in EU projects
- Integrated Research Project (IRP) for Wind has created mobility, trust and transparency for a new level of collaboration



Average % income from commercial contracts with industry for leading six European RTOs in wind energy

This is where research makes it to the market





#### Success story: Joint Programme on Smart Cities

A co-creation collaborative approach towards Smart Positive Energy Cities, with 44 partners from 17 countries



- EERA JPSC develops the SRA including
- Definition of PED
- Supports roll out of 100 PEDs by 2025
- Orchestrates scale-up from "Districts" to "Cities"
- Climate neutral & smart cities Mission

EERA JPSC partners lead or participate in all 14 H2020 SCC01 projects

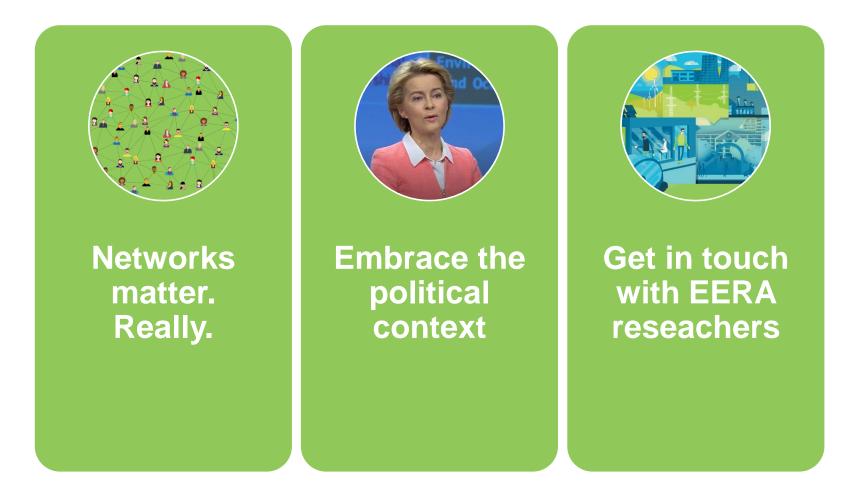
- Supporting 90 cities across Europe
- Enabling cross-project analysis
- Showcasing how RTOs & universities orchestrate PPPs













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# Thank you!

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