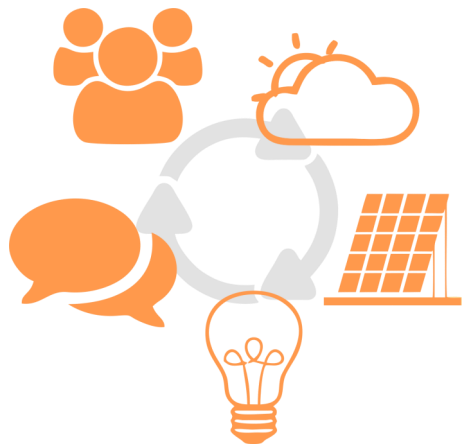


inDust

COST ACTION CA16202

inDust User Workshop on Solar Energy 19-20 Feb 2019



Why participate:

- Learn about the state of the art concerning mineral dust research (forecasts, measurements, products)
- Share your experiences about dust outbreaks and how they influence operations
- Shape future research activities
- Communicate your requirements
- Connect with other users and developers

Speakers:

Representatives from:


- inDust COST Action
- National Weather Services
- Research Institutions
- TSOs
- DSOs
- Plant operators
- ...



Programme:

- Overview Talks on:
inDust COST Action, WMO SDS-WAS, TSO's perspective
- Science Talks on:
Mineral dust in NWP, measurements of mineral dust, impact on power production and operations
- Interactive discussion on 3 key-issues:
 - 1) Uncertainties in dust modelling
 - 2) Ensemble forecasts
 - 3) User-oriented products

Venue:

 Deutscher Wetterdienst
Frankfurter Straße 135
63067 Offenbach



Please register informally via
indust.workshop@dwd.de
until 04.02.2019

 **cost**
EUROPEAN COOPERATION
IN SCIENCE & TECHNOLOGY

User-Workshop InDust on Solar Energy

Date: 19.02.2019 – 20.02.2019
(Tuesday noon 14:00 – Wednesday afternoon 16:00)

Place: Deutscher Wetterdienst
Frankfurter Straße 135, 63067 Offenbach am Main
Conference Area

Agenda:

Day 1	19.02.2019
14:00 – 16:00	Overview talks (30+10 min): <ul style="list-style-type: none">• COST-Action “InDust” WMO- Sand and Dust Storm Warning Advisory and Assessment System (SDS-WAS) (Sara Basart, BSC)• IEA Task 16: Solar resource for high penetration and large scale applications. Focus on dust impact on Solar Energy (Philippe Blanc, MINES ParisTech)• Use Case “Minoan Red” – Identified impacts on Solar energy sector (Alexandra Monteiro, University of Aveiro)
16:00 – 16:30	Coffee / Tee break
16:30 – 18:30	Research & Development (20+10 min): <ul style="list-style-type: none">• Measurements of mineral dust (Stelios Kazadzis, PMOD/WRC)• SoDa and HelioClim users overview and feedback on the issues related to dust and soiling for solar energy (Etienne Wey, MINES ParisTech)• Suggested ERA4CS approach for estimating climatological soiling effect of dust on solar energy production (Anders Lindfors, FMI)• Improvement of the solar irradiance forecasts using the aerosol forecast from atmospheric models (Jose-Luis Casado-Rubio, AEMET)
18:30 – ...	Icebreaker

Day 2	20.02.2019
09:00 – 11:00	Research & Development (20+10 min): <ul style="list-style-type: none"> • Weather and the energy markets: The value of improved solar power forecasting (Christoph Elsässer, EnBW) • How does mineral dust impact the power production of CSP plants? (Stelios Kazadzis, slides by Natalie Hanrieder, DLR) • Relationship between a thermosolar plant production and the dust concentration (Mercedes Fernandez Leon, Abengoa) • Mineral dust in numerical weather prediction – Operations and Research at DWD (Jochen Förstner, Vanessa Bachmann, DWD)
11:00 – 11:30	Coffee / Tee break
11:30 – 12:15	3 key issues: Introductory talks and discussion (15+30 min): <ul style="list-style-type: none"> • Uncertainties in mineral dust modelling and implications on radiation and cloud forecasts (Bernhard Vogel, KIT)
12:15 – 13:15	Lunch
13:15 – 14:45	3 key issues (cont'd): Introductory talks and discussion (15 + 30 min): <ul style="list-style-type: none"> • Usage of (dust-) Ensemble forecasts in the RE-sector (Vanessa Fundel, DWD) • User-oriented products (Lucia Mona, CNR IMAA)
14:45 – 15:15	Coffee / Tee break
15:15 – 16:00	Wrap-up and closing
19:00 – ...	Optional dinner