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26thERC & 66thIEC

Irrigation & Energy WS

Crossing issues between Irrigation and Energy



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- Most modern systems are energy consumers
- Irrigation energy footprint and cost are increasing steadily
- Research
 - to reduce energy consumption
 - to increase energy efficiency
 - to reduce energy costs
- On-field (farm, collective networks) energy generation



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Themes

- Energy policies, and implications for irrigation development
- Investing in energy production in irrigation systems
- Diagnosis of energy consumption in irrigation systems
- Tools and technologies to reduce energy consumption



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Possible outcome

- Summary paper
- Networking, new ICID working group about energy?



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Contents of the session (1 / 3)

Buisson Marie-Charlotte	What does pump sets electrification change? Impacts on cropping patterns, productivity and incomes in West Bengal
Lejars Caroline	What are the indirect and direct effects of irrigation policy on energy costs? A social accounting matrix assessment in Tadla (Morocco)
Prevost François	Réalisation et exploitation d'une microcentrale : modalités d'un partenariat durable entre l'ASCO des irrigants de la Crau et la Société du Canal de Provence
Salem Osama	Prospects of Concentrated PhotoVoltaic (CPV) System in Wadi El natron Area, Egypt.



Contents of the session (2/3)

Anwar Nadjadjj	Water allocation optimization for combined users of energy generations and irrigation demands at the upstream Brantas River reach using mixed integer linear programming method
Ben Elghali Seifeddine	An analysis of energetic cost for an irrigation network in France
Auger Vincent	Modernisation de périmètres irrigués dans le nord ouest argentin
Mateos Luciano	Irrigation pumping efficiency at smallholdings in North East Brazil
Gendre Sophie	Hydraulic irrigation installation diagnosis: knowing of the system to improve it



Contents of the session (3/3)

Maruejols Franck	Optimisation énergétique du système BRL
Aliod Sebastian Ricardo	Algorithms and tools for optimum scheduling of on-demand irrigation for an effective energy cost reduction
Zapata Nery	Collective irrigation network design and management for energy optimization : the CINTEGRAL tool
Rafael Gonzales	Reducing the energy demand in irrigation water supply systems. Experiences from southern Europe
Graziano Ghinassi	Carbon Footprint of three different irrigation systems (poster)
Luciano Mateos	Discussion and conclusion