



HELLENIC SMALL
HYDROPOWER ASSOCIATION



In wider energy and environmental perspective

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Ελληνικός Σύνδεσμος Μικρών Υδροηλεκτρικών Έργων



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ΕΣΜΥΕ

Hellenic Small Hydropower Association

- * Established in 2010
 - 140 HSHA members, representing 70% of the total installed capacity of SHP in Greece
- * Main objectives:
 - promotes the exploitation of the untapped water resource
 - substantiates the advantages and benefits of small hydropower
 - represents and defends the interests of the SHP market
- * In action to:
 - increase the penetration of SHPPs in the national energy mix
 - help achieving the national targets

Current status

- * 125 SHPPs in operation ~ 250 MW
- * 25 SHPPs (~50 MW) with installation license (most of them under construction)
- * 1.100 MW total with production license
- * Target → 500 MW in 2030 and 1.000 MW in 2040

Comparative advantages of SHP (versus other forms of RES and economic sectors)

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|---|---|
| * Higher energy efficiency | * Long-life investments |
| * Low cost energy | * Multi-purpose projects (energy production, irrigation, water supply, flood protection, fire protection) |
| * Grid stabilization | * Economic contributes to local communities |
| * Helping increase penetration of unstable network technologies | * SHPPs for overall management of water resources (hidden or treasure hydro) |
| * Large domestic added value | |
| * Projects made by regionally Small and Medium Enterprises | |

New Support Scheme For Greek Renewables: Law 4414/2016 August 2016

- * New support scheme for renewable energy (Law 4414/2016) compatible with the EU Guidelines on State aid for environmental protection and energy 2014 – 2020, approved by the European Commission.

Latest rules applying to RES projects:

- * Gradual integration and participation of RES and SHP projects in the electricity market on an optimal cost benefit basis for society
- * Beneficiaries are subject to market obligations (settlement procedures) and standard balancing responsibilities, unless no liquid intra-day markets exist
- * Operating aid in the form of a sliding Feed-In Premium ("FiP") and on the basis of competitive bidding processes

Especially for SHPPs:

- * **Exemption of SHPPs from auctions till 2020** (due to HSHA actions and efforts)
- * Projects with $P < 0,5 \text{ MW} \rightarrow \text{FiT} = 100 \text{ €/MWh}$
- * Projects with $P > 0,5 \text{ MW} \rightarrow \text{FiP} = 100 \text{ €/MWh}$ ($P < 3 \text{ MW}$) & **97 €/MWh** ($3 \text{ MW} < P \leq 15 \text{ MW}$)
- * **Exemption of SHPPs in water networks** up to 500 kW and all SHPPs belonging to Energy Communities up to 1 MW for net metering, from the need of production license