



Energy Solutions Dept.



Presentation content

- Energy solutions department
- Technologies
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- Project solutions



Energy solutions department

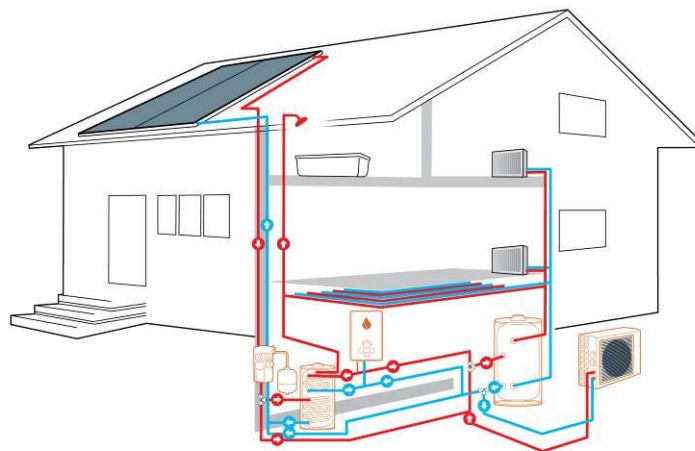
The department is responsible for providing complete solar water heating solutions

- Analyzing project data
- Preliminary design and ROI calculation
- Quotation
- Detailed engineering plan
- Installation & supervision
- After sale technical support



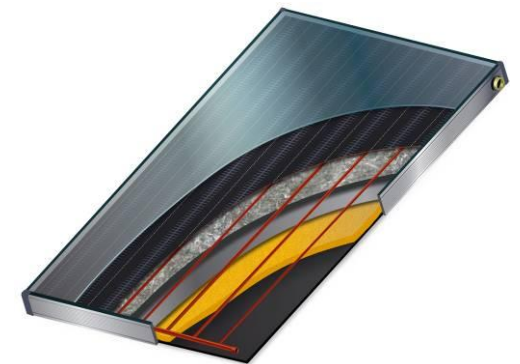
Technologies

- Solar thermal collectors
- Water storage tanks
- Backup: heat pumps, electricity, gas, oil
- Water treatment
- Water circulation systems engineering



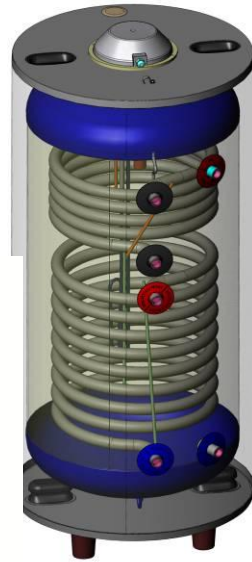
Collectors

- Absorber Material
- Absorber coating type
- Insulation
- Solar glass
- Casing type
- Risers & manifolds diameters
- Back plate
- Aluminum foil



Storage tanks – up to 300L

- Galvanized casing
- Polyurethane insulation
- Steel tank
- Enamel coating
- Electric back up
- Sacrificial anode
- Thermostat
- Spiral heat exchanger



Large storage tanks: 1,000-15,000L

- Galvanized casing
- Polyurethane/mineral wool insulation
- Steel tank
- COPON KS16W internal coating
- Working pressure 6 bars. Test pressure 10 bars



Heat pump back up

- Heat output- 3.5 - 45 kW
- Water temp - up to 60 C
- Combined hybrid systems



Oil back up

- Capacity - up to 150 kW
- Water temp - up to 100 C



Gas back up

- Capacity - up to 150 kW
- Water temp - up to 100 C



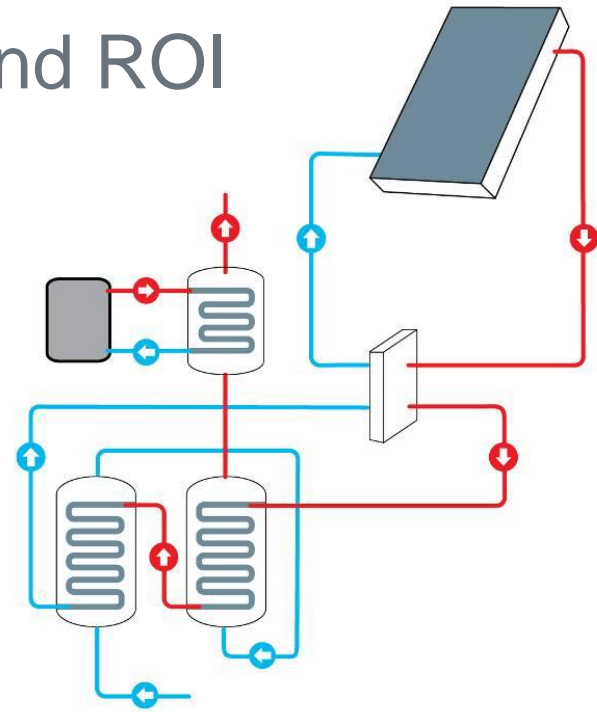
Water treatment

- Anti scale filter for scale prevention
- Anti freeze solution for freeze protection
- Legionella prevention
- Other filters



Project stages

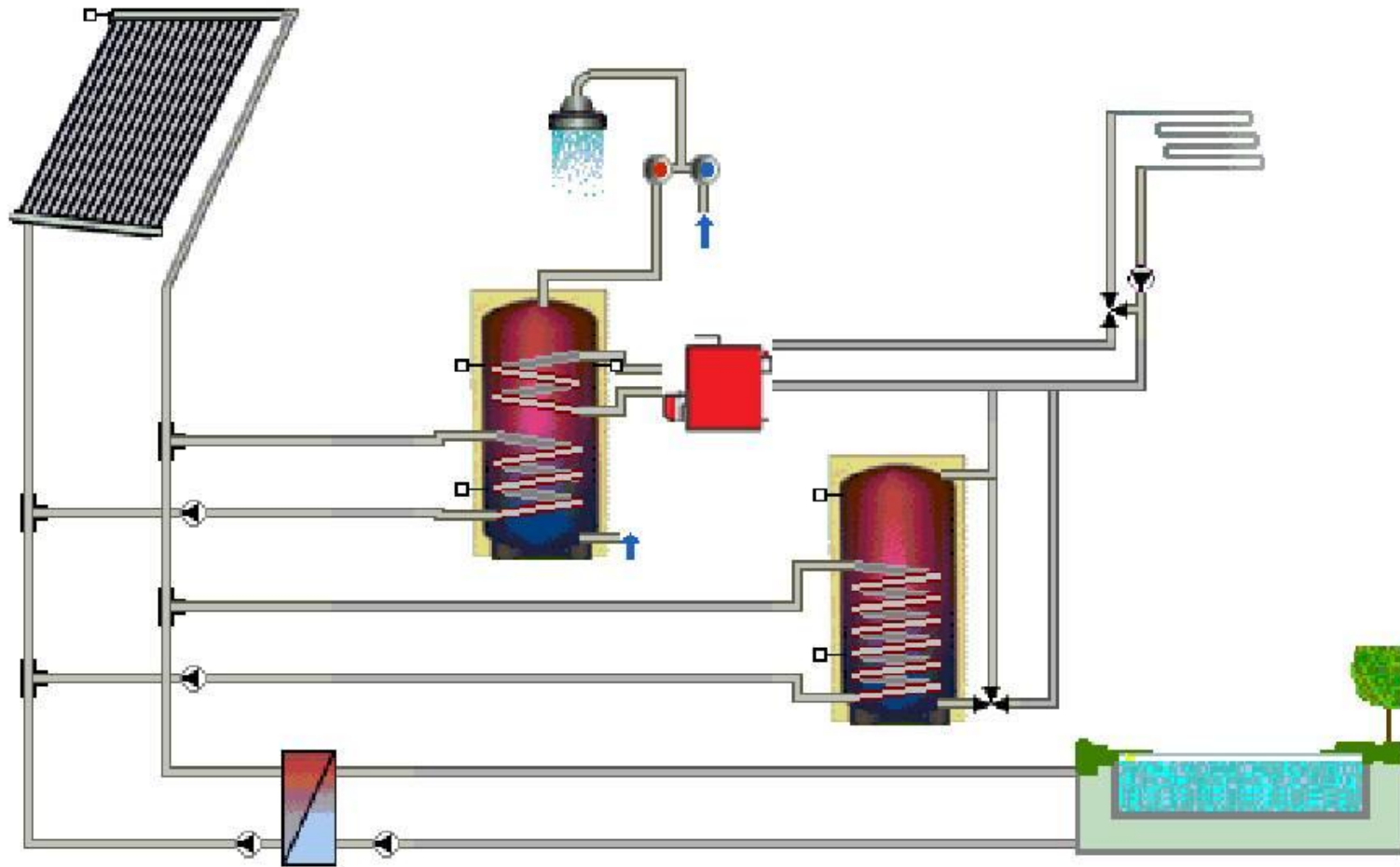
- Fill project information questionnaire
- Analyzing questionnaire and climate data
- Preliminary system design and ROI
- Quotation
- Detailed system design
- System delivery
- Installation and supervision
- After sale support



Projects solutions

- Apartment buildings
- Hospitals
- Senior homes
- Factories
- Sport facilities
- Schools
- Hotels and more...

Water circulation system example



Hotels in Greece



Hospitals

Spain



Chile



Taiwan



Hospitals



Projects in Ghana



Apartment buildings

Cuba



Spain



Israel



Dispensaries in Tanga Tanzania



Dar Es Salaam Kunduchi



Rural area in Tanzania



Solar in Tanzania



Solar in Tanzania



Solar in Tanzania



Solar in Tanzania





Thank You



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