

ALP STORE

Pilot Region Gorenjska, SI



PV_REDOX

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Before AlpStore: Our Challenges

- Remote areas in the alpine space (small villages, farms, tourism infrastructure...)
- Long overhead distribution lines
- Trojane is a small alpine village in Slovenia

RTP/RP	Izvod	MAIFI [prek./odi.]		
		Izvod	RTP/RP	Podjetje
RTP_PRIMSKOVO	PRI_20_INTERSPAR - Mestni	0	0	0
	PRI_20_JAKA_PLATISA - Mestni	0	0	0
	PRI_20_PRES_BRIG - Mestni	0	0	0
	PRI_20_SUCEVA - Mestni	0	0	0
	PRI_20_FARMA_HRASTJE - Podeželski	4,615	0,201	0,031
	PRI_20_GOR_TISK - Mestni	0	0	0
	PRI_20_JEZERSK_CESTA - Mestni	5,107	0,157	0,024
	PRI_20_KOMUNAL_CONA - Mestni	0	0	0
	PRI_20_GORENJE - Mestni	0	0	0
	PRI_20_IBI - Mestni	0	0	0
	PRI_20_SENCUR - Mestni	0,067	0,006	0,001
	PRI_20_VIDMARJEVA - Mestni	0	0	0
	PRI_20_BRITOF_OLJAR. - Mešani	31,345	6,239	0,962
	PRI_20_DEZMANOVA - Mestni	0	0	0
	PRI_20_KOTLARNA_PLA - Mestni	1,002	0,075	0,012
	PRI_20_MERKUR - Mestni	0	0	0
	PRI_20_VISOKO_BRNIK - Podeželski	8,826	0,858	0,132
	PRI_20_VRECKOVA_PLA - Mestni	1,936	0,221	0,034

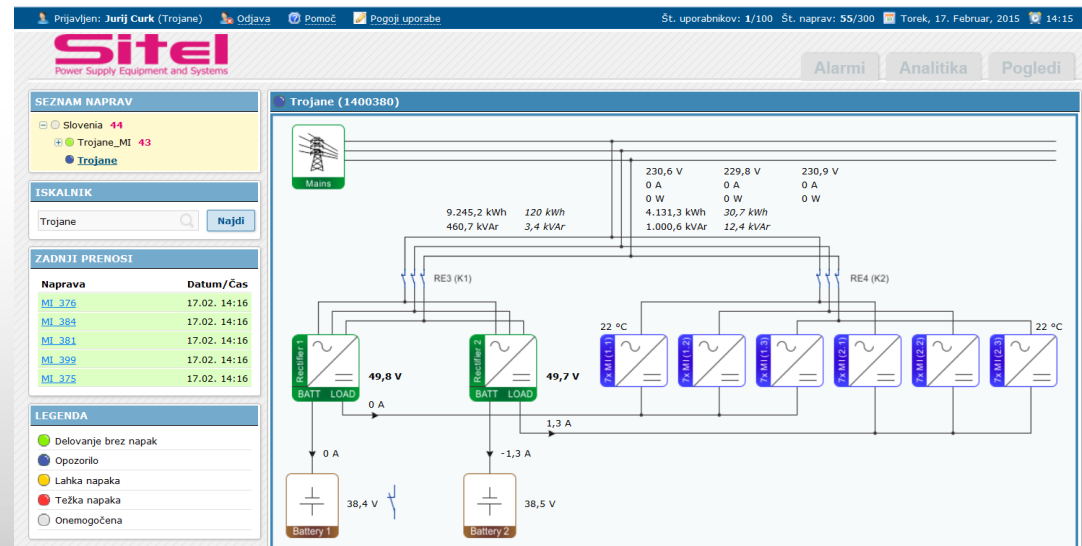
During AlpStore: Our Activities

- Define the PV_REDOX concept
- Define technical requirements
- PV_REDOX system
 - 50 kW PV power plant
 - 5 kW/20 kWh ESP
 - EV charging station
- Development of:
 - Operational scenarios
 - Control algorithms
- Results monitoring



After AlpStore: Our Achievements

- ✓ The installed system allows the restaurant to:
 - ✓ Store the surplus energy from a PV source
 - ✓ Peak shaving
 - ✓ Power on failure functionalities
 - ✓ ...



After AlpStore: Our Recommendations

1. Small sized energy storages in home energy-systems together with PV systems can be a good solution for remote areas;
2. Attract attention and improve the acceptance;
3. Keep an eye on the development in the field of storages;

