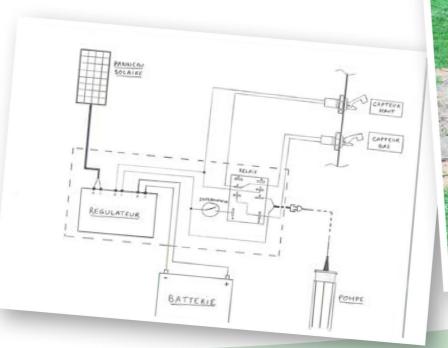




LA BUVETTE, pioneer of solar watering

1992: Installation of the first prototypes of autonomous watering systems with a solar pump at two farms in the french Ardennes (still operational).







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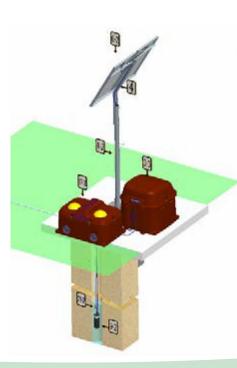
1995: After numerous other tests, the product was finalized, but the price of the components was too high to allow commercialisation. Further tests are performed in order to optimise the performance and reliability of the system. 2003: LA BUVETTE markets the first watering systems with solar pump SOLAR-FLOW™ 900 and SOLAR-FLOW™ 1500. These watering systems are the result of extensive studies offering an innovative, efficient and reliable solution. You can still find them in the LA BUVETTE catalogue.





LA BUVETTE, pioneer of solar watering

2007: LA BUVETTE has been awarded with the Silver Trophy at the SIMA Innovation Awards for our THERMO-SOLAR, a combination of THERMOLAC and SOLAR-FLOW.







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2014: Technological developments allow lowering the price of the entire SOLAR-FLOWTM range. Considering the rising cost of fuel, SOLAR-FLOW pays itself back after only one grazing season.





LA BUVETTE, pioneer of solar watering

Today:

More than 500 SOLAR-FLOW™ units are at present in service



Why to choose LA BUVETTE®' Solar Products?

- Industry-leading performances (flow rates, pumping depth, battery life) ahead of competition
- Reliability: LA BUVETTE is a pioneer in the field of solar watering solutions drawing on more than 10 years' experience
- All-in-one or modular solutions for watering one or more plots
- Anti-theft systems covered by a some insurance policies: self-breaking nuts + padlock supplied

The more sun,
the more the animals drink,
the bigger the water output.

- Advice from LA BUVETTE specialists for easy installation
- After-sales service from LA BUVETTE and quick delivery of spare parts
- Low maintenance: maintenance of the immersion pump every 2 to 5 years depending on the quality of the borehole





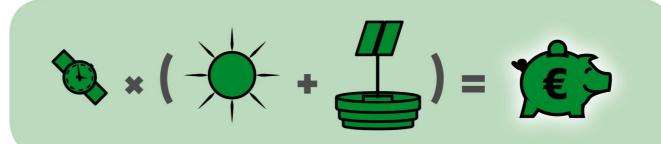
Time and Money Saver...

Lower prices thanks to the latest technological developments! Pumping station from 4-299 €EX. TAX 2 499 €EX. TAX* onwards and complete autonomous solar waterer from 3 980 €EX. TAX 3 535 €EX. TAX* onwards

Quick return on investment (sometimes already

- after one season only, depending on your water hauling costs)
- Subsidies possible, contact your local agricultural administration for more information











Your water hauling costs

Fill in your data, the result is calculated automatically:

YOUR TIME:

Number of days water has to be hauled: 55 days/year / (= Number of days on pasture / hauling frequency)

Average duration of water haulage: 1,00 h/day

You spend 55 hours a year watering your herd on pasture.

2 YOUR MONEY:

Fuel price: 0,76 €/litre /

Hourly costs: (Use the table)

e the tablej		
Tractor	8,20 €/h	
Fuel	4,38 €/h	
Water tank	7,60 €/h	

6,00 €/h

Each year, the hauling of water costs you:

Labour

1.439,90 €

				U			
		Purchase price	Amortization	Yearly use	Cost per hour (€/h)*		
		(in €)	(years)	(hours)	material	fuel	
	2WD Tractor (Power)						
er your mal data e if you w them	60 HP	22 000	7	700	4,70	3,28	
	80 HP	30 000	7	700	6,00	4,38	
	100 HP	40 000	7	700	7,80	5,47	
	4WD Tractor (Power)						
	80 HP	34 500	7	700	8,20	4,38	
	100 HP	45 500	7	700	9,70	5,47	
	120 HP	57 200	7	700	12,00	6,57	
	0 /	0 🥒	1 🥒	1 🥒	1,50	0,00	
	Water tank (volume)						
	3000	2 500	7	50	5,40		
	5000 I	3 500	7	50	7,60		
		0 /	1 🥒	55,00	0,00		
	Labour						
	Help				11,5		
	Breeder				6,0		

*Following the barème d'entraide - Trame BCMA



The amount SOLAR-FLOW™ can help you save each year



* Warning: Please contact us if your

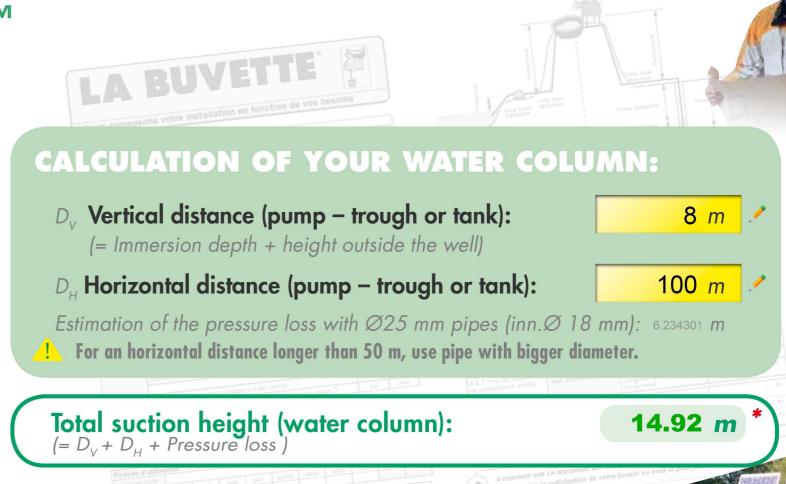
water column exceeds 50 m



SOLAR-FLOW[™]

Tips on Choosing:

- Choose a location that is **well exposed to the sun** (no big trees nearby) and that delivers a sufficiently abundant volume of water in summer (depending on your need for water).
- Do not forget to adapt the diameter of your pipes to the entire suction height (water column).
- It is necessary to install a concrete base or metal frame (not supplied).
- In areas where there is a risk of severe frost, the batteries must be wintered.
- If possible, install your SOLAR-FLOW™ out of sight and report it to your insurer indicating the details of its built-in anti-theft systems.



Delete all



SOLAR-FLOW[™]

Calculation of your daily water need:

Indicate the number of animals to be watered in the board opposite to obtain an estimation of their water consumption in the pasture.

Press «Enter» to launch the calculation.

Total daily water need:

3300 litres







How to choose your SOLAR-FLOWTM

Click on the type that suits your criteria best and discover after how many seasons it will have paid itself back:





24 VOLT TYPES:

- > For watering up to 40 heads of cattle
- > Flow rate of 3500 litres per day in optimum conditions: 160 to 360 l/h depending on the immersion depth
- > Pumping depth down to **50 meters** (water column).







Ref. 2287



Ref. 2202



12 VOLT TYPES:

- > For watering up to 20 heads of cattle
- > Flow rate of 2200 litres per day in optimum conditions
- > Pumping depth down to 20 meters (water column).





Ref. 2201

Need a custom solution?

Contact our technicians !



SOLAR-FLOW™ «Solar-Powered»

Ref. 2203



EF. DESIGNATION

Solar pump set 24 V «SOLAR-POWERED» with two 70 Wp panels, submerged pump, pole and supports, 1 24 V booster, 50 m (164 ft) hose, fi ttings and electric cables

24 VOLT SOLAR PUMP SET WITHOUT BATTERY:

Complete solar pump sets working without battery.

The pump is activated as soon as the luminosity is sufficient.

- ➤ For watering up to 40 heads of cattle
- ➤ Pumping depth down to **50 meters** (water column)
- ➤ A storage tank is recommended to cover several days without sun (read OUR ADVICE)



OUR ADVICE

A SOLAR-FLOW™ "Solar-Powered" pumping station does not store the energy. Therefore, you should provide for a water reserve of sufficient capacity in order to cover several very cloudy days in a row.

A storage tank is better than troughs as a means of storage. It shields the water from light and you will not find any drowning animals in it. This prevents algae growth and water contamination.

Depending on the immersion depth, a SOLAR-FLOW™ "Solar-Powered" can pump up 160 to 360 litres per hour. Equip the tank with an overflow system to direct the excess water back to its source.

Real installation example



Theoretical break-even point*

2 season(s)

Free Advice and Quotation



^{*}According to the calculation of your water hauling cost here.



SOLAR-FLOWTM «Storage»

Ref 2287



EF. DESIGNATION

Solar pump set 24 V «Storage»
With two 70 Wp panels, submerged pump, pole, support, cabinet, two 12 V batteries, electric cables and 50 m (164 ft) stainless steel cable, 50 m hose and water level sensors

24 VOLT SOLAR PUMP SET WITH BATTERIES:

Complete autonomous solar pump set.

The batteries accumulate energy as soon as the luminosity is sufficient.

Water level sensors activate and stop the pump to avoid overflow.

- ➤ For watering up to 40 heads of cattle
- ➤ Flow rate of 3500 litres per day in optimum conditions: 160 to 360 l/h depending on the immersion depth
- > Pumping depth down to 50 meters (water column).
- ➤ Autonomy without sun: 10 days with a daily consumption of 2500 l/ day.

Real installation example



Theoretical break-even point*



Free Advice and Quotation



^{*}According to the calculation of your water hauling cost here.



SOLAR-FLOW™ 1500 L

Ref 2202

1500 LITRES DRINKING TROUGH WITH 24 VOLT SOLAR PUMP AND BATTERIES:

The complete autonomous watering solution.

- > For watering up to 40 heads of cattle
- ➤ Flow rate of 3500 litres per day in optimum conditions: 160 to 360 l/h depending on the immersion depth
- ➤ Troughs made of PolychocTM HDPE, with 8 years warranty against all manufacturing defect.
- > Pumping depth down to 50 meters (water column).
- ➤ Autonomy without sun: 10 days with a daily consumption of 2500 l/ day.



OUR ADVICE

Have your pump overhauled regularly (every 2 to 5 years depending on the quality of the borehole). LA BUVETTE offers you a fixed rate for pump maintenance. Take advantage of the low season to have your pump overhauled and have it operational by the next high season... Contact your dealer for advice.

Real installation example



Theoretical break-even point*

3 season(s)

Free Advice and Quotation



REF. DESIGNATION

2202 Complete pack - Solar pump - Two 750 litres (1500 litres) drinking troughs - Two 12 V batteries and two solar panels 70 Wp

^{*}According to the calculation of your water hauling cost here.



SOLAR-FLOWTM «Storage»

Ref 2285



REF. DESIGNATION

Solar pump set 12 V «Storage»
With one 70 Wp panel, submerged pump, pole, support, cabinet, 12 V battery, electric cables and 25 m (82 ft) stainless steel cable, 25 m (82 ft) hose and water level sensors

12 VOLT SOLAR PUMP SET WITH BATTERY:

Complete autonomous solar pump set. The battery accumulates energy as soon as the luminosity is sufficient. Water level sensors activate and stop the pump to avoid overflow.

- > For watering up to 20 heads of cattle
- ➤ Pumping depth down to 20 meters (water column).
- > Flow rate of 2200 litres per day in optimum conditions
- ➤ Autonomy without sun: 10 days with a daily consumption of 1200 l/day.

Real installation example



Theoretical break-even point*



Free Advice and Quotation



^{*}According to the calculation of your water hauling cost here.





SOLAR-FLOW™ 900 L

Ref 2201

900 LITRES DRINKING TROUGH WITH 12 VOLT SOLAR PUMP AND BATTERY:

The complete autonomous watering solution.

- ➤ For watering up to 20 heads of cattle
- > Flow rate of 2200 litres per day in optimum conditions
- ➤ Troughs made of PolychocTM HDPE, with 8 years warranty against all manufacturing defect.
- > Pumping depth down to 20 meters (water column).
- ➤ Autonomy without sun: 10 days with a daily consumption of 1200 l/day.



OUR ADVICE

Have your pump overhauled regularly (every 2 to 5 years depending on the quality of the borehole). LA BUVETTE offers you a fixed rate for pump maintenance. Take advantage of the low season to have your pump overhauled and have it operational by the next high season... Contact your dealer for advice.



Real installation

Theoretical break-even point*

2 season(s)

Free Advice and Quotation



201 Complete pack - Solar pump - Two 450 litres (900 litres) drinking troughs - One 12 V battery and one solar panel 70 Wp

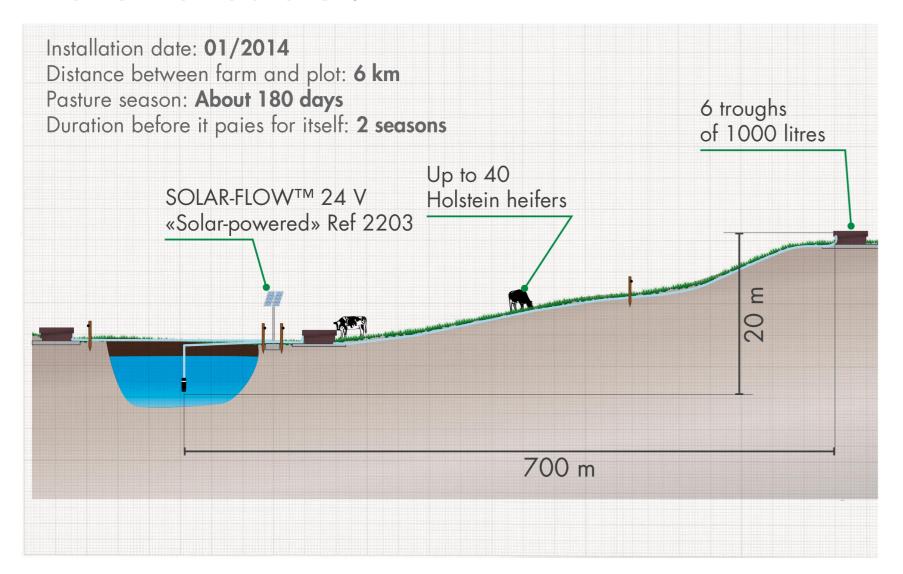
EF. DESIGNATION

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Installation Example SOLAR-FLOW™ «Solar-Powered»

Plan of the installation:







Hervé CHAUVIN, breeder of dairy cows in Guemené Penfao (Loire-Atlantique, France)

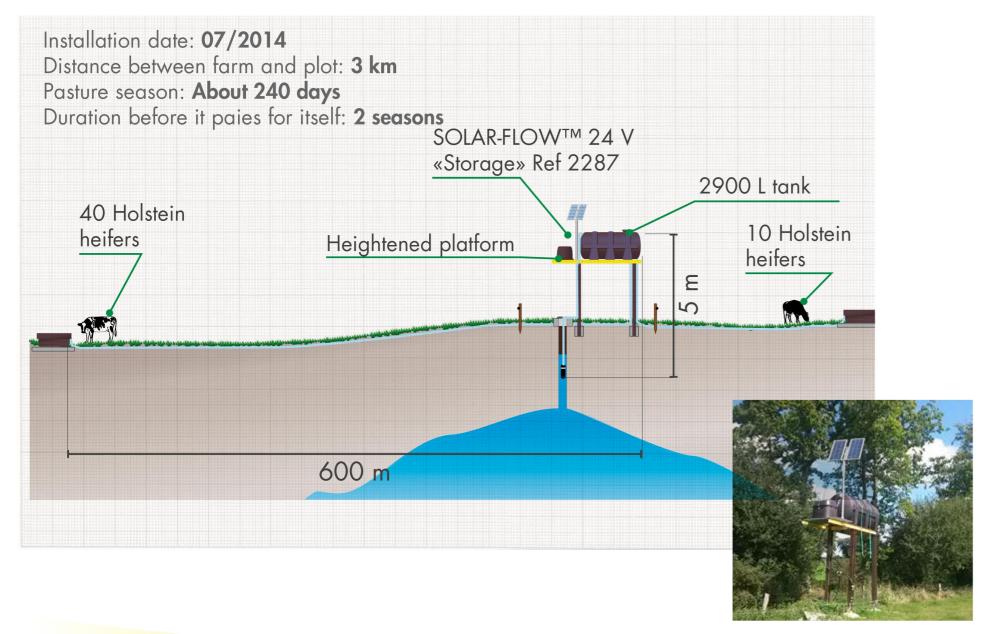


I have been using a 24 V SOLAR-FLOW™ Solar-Powered pump without batteries since January 2014. It takes water from a pond to serve several groups of Holstein Friesian heifers (up to 40 animals). As soon as there is enough light, the pump fills up 6 troughs of 1000 litres. The farthest one is situated at a distance of 700 meters and 20 m higher and it all works perfectly. The animals stay outside from March till November and before I had to haul water with my tractor two times a week and it cost me 1h30 each time. I am very happy with my investment. The SOLAR-FLOW™ pump is really effective. My installer even added a valve system allowing the water to return to the pond when the troughs are full.



Installation Example SOLAR-FLOW™ «Storage»

Plan of the installation:







Jean-Louis GAVARD, breeder of dairy cows in Saint-Etienne-en-Coglès (Ille-et-Vilaine, France)



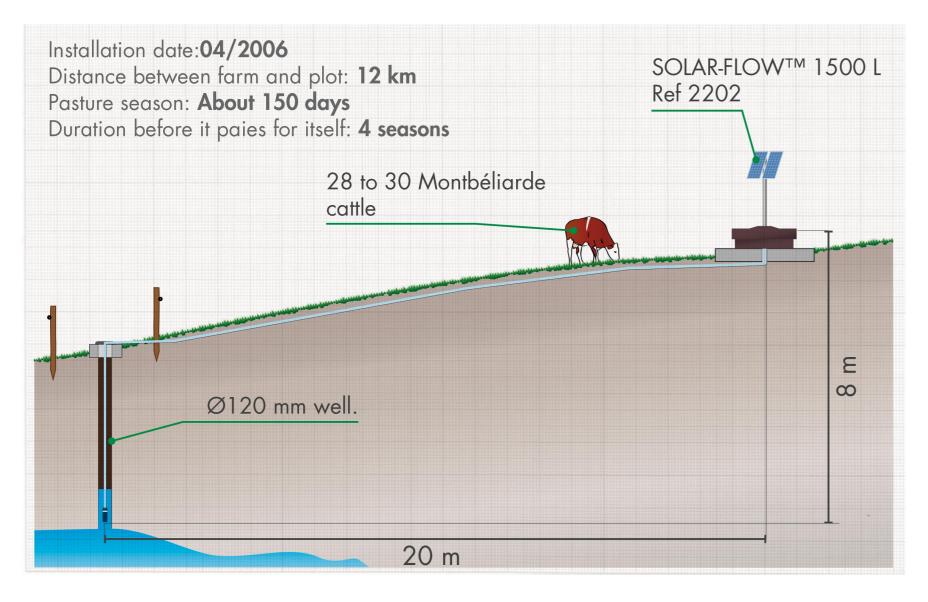
My 24 V SOLAR-FLOW™ «Storage» with batteries has been operational since July 2014. The water is drawn from a shallow borehole and is first stored in a higher placed 2900 litre tank before supplying two troughs placed at a distance of up to 600 m. From April to November, the system provides water to a group of 1 to 2 year old heifers and a group of some ten +2 year old heifers on pasture at 3 km from the farm.

My SOLAR-FLOWTM «Storage» station saves me 1h30 of water hauling time 2 to 3 times a week. It will have paid for itself after two seasons only.



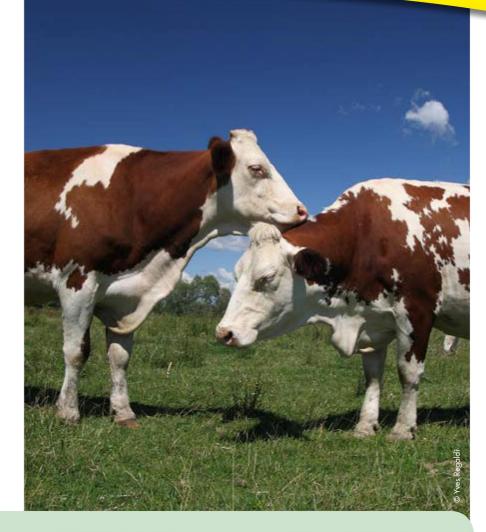
Installation Example SOLAR-FLOW™ 1500 L

Plan of the installation:









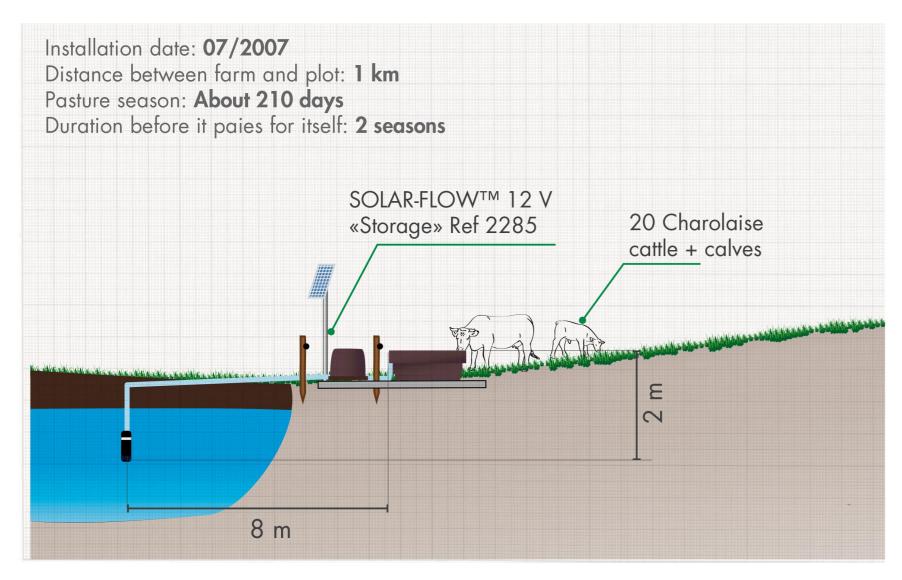
Bernard SAINT-DIZIER, breeder of Montbéliarde cattle in They-Sous-Montfort (Vosges, France)

I have been using a Solar-Flow 1500 L since april 2006. As time passed, I was astounded by its output and reliability, which made it earn my confidence. In may 2010, I chose a Solar-Flow 900 L for a group of 18 young cows. I gain a huge amount of time and no longer need to worry about the water supply. It is a big relief. The pumps are submerged to a depth of 6-8 m in wells at a distance of some twenty metres from the troughs. No need to worry about the Solar-Flow™ drinkers. Even if the sky is overcast, the troughs are full. The animals are calmer, no longer stand around waiting for the tractor to come and there is no more crowding to get water. Even when I only take into account the fuel savings, tractor wear and gain in time (1 hour a day), my Solar-Flow 900 L will be paid off in 3 seasons.



Installation Example SOLAR-FLOW™ «Storage»

Plan of the installation:







Bruno C., breeder of dairy cows in Saint-Pierre Magnycourt (Nièvre, France)

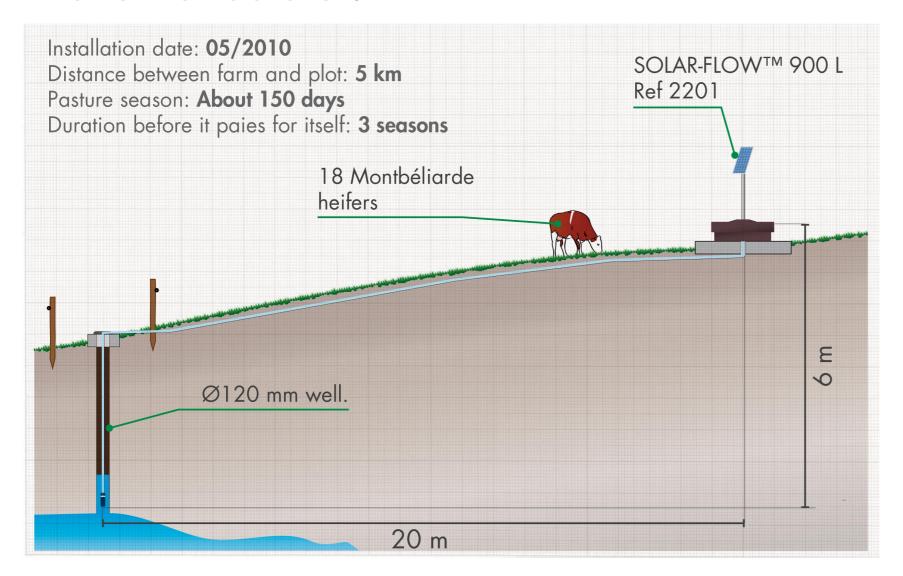


I have been using a 12 V SOLAR-FLOW™ «Storage» pumping station since July 2007. I installed it to replace a wind turbine that was too often out of order. This 12 V system pumps a sufficiently large volume of water from a pond for some twenty Charolaise cows and their calves. When the weather is bad for several days in a row, I check the battery charge level, but it actually has a very long life. I am much more at ease than when I still had the wind turbine. Before I had the SOLAR-FLOW, I had to come with the tank every day to fill up the troughs. Now, I can do other things and when I do a quick calculation, it has paid itself back already a long time ago!



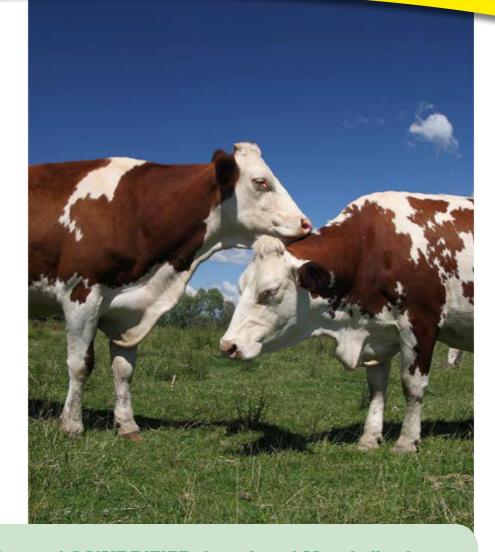
Installation Example SOLAR-FLOWTM 900 L

Plan of the installation:









Bernard SAINT-DIZIER, breeder of Montbéliarde cattle in They-Sous-Montfort (Vosges, France)



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