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solar

Evacuated Tubes



* Solar Collector and Stainless Steel Tank only. For full warranty details refer to www.edson.com.au.

'Proud to be making a difference'

‘Edson – providing hot water to Australian families for more than 50 years’

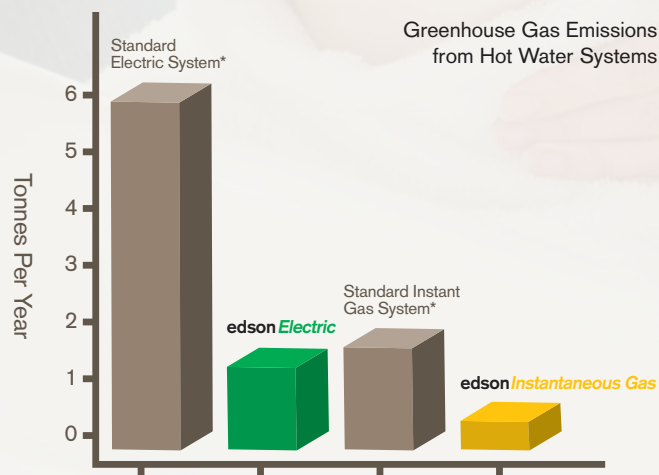
Edson hot water systems

- Over 50 years experience in providing domestic, commercial and industrial hot water solutions.
- Built to last, backed with long-life manufacturers warranties.
- Solar options available with all Edson systems to reduce your carbon footprint.

‘Edson delivers peace of mind for your family’

Edson Solar Hot Water Systems provide your family with an efficient solution for hot water in your home, save you money and reduce your greenhouse gas emissions.

* Source: Department of Environment & Climate Change NSW



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Edson is proud to be Australian owned and operated

Our development team have been involved in the production of hot water technology for more than 50 years.



“Edson specialise in the provision of hot water solutions to domestic, commercial and industrial markets across Australia.

Our tried and proven technology provides affordable efficient hot water solutions with the flexibility to accommodate almost any installation application.

With a national network of product outlets, authorised resellers and a qualified network of professionals available for service, support and installation, you can trust Edson to be there for the life of your hot water system.”

Rick Ward
Managing Director



How it works

The Edson Solar Hot Water System uses solar collectors that collect heat by absorbing sunlight.

The collectors are devices for converting the energy in solar radiation, providing a highly efficient means of heating your water.

The Evacuated Tubes

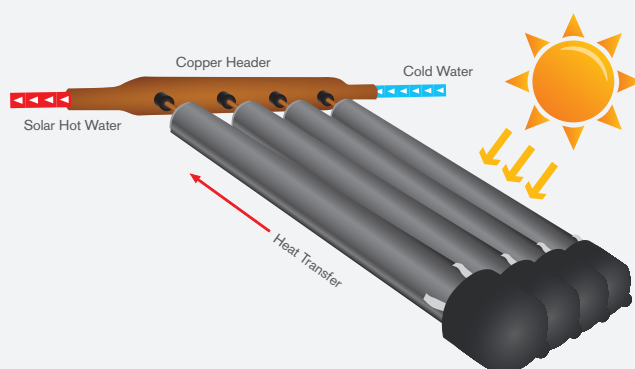
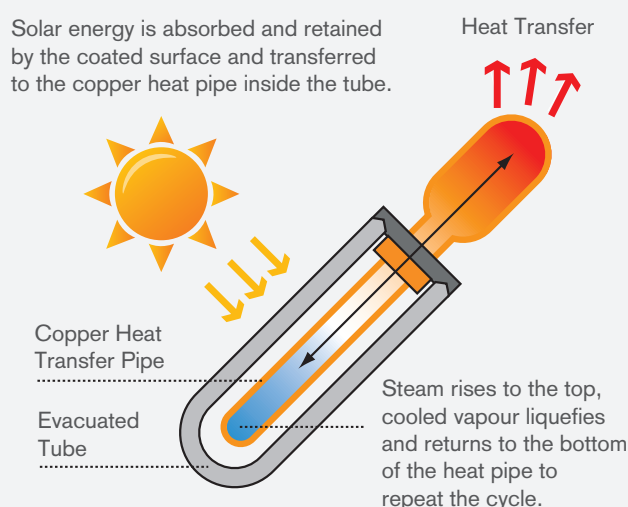
Glass evacuated tubes are the key component of the Edson Solar Collectors. Each evacuated tube consists of two glass tubes. The outer tube is made of extremely strong transparent borosilicate glass, that is able to resist impact from hail up to 25mm in diameter. The inner tube is also made of borosilicate glass, but is coated with a coating which features excellent solar heat absorption and minimal heat reflection properties. The air is withdrawn from the space between the two glass tubes to form a vacuum, which eliminates conductive and convective heat loss.

The Evacuated Tube Heat Pipe System

Inside the glass evacuated tubes, a copper heat pipe is installed. The copper heat pipe transmits heat to its tip which is plugged into the collector's heat transfer manifold. As water runs through the manifold heat is transferred from the copper heat pipe to the water as shown in the diagram (below right). The heat transfer manifold is housed in a highly insulated aluminum housing.

This method of heat transfer is a thousand times more efficient than a solid copper rod. Heat is therefore very efficiently transferred from the glass evacuated tube to the water. Since no water is flowing through the collector tubes and the tubes are hermetically sealed it does not suffer from corrosion problems, as is the case with other types of solar collectors.

Unlike other types of solar collectors, evacuated solar collectors still provide excellent results on cloudy days. This is because the tubes are able to absorb the energy from infrared rays which can pass through clouds. Wind and low temperatures also have a minimal effect on the function of evacuated tubes when compared to flat plate solar collectors. This is due to the insulating properties of the vacuum in each tube.



Solar will significantly reduce your carbon footprint

Edson are proud to be making a difference and hope that through education and working with the community we can make a significant contribution to the reduction of green house gas emissions in Australia.

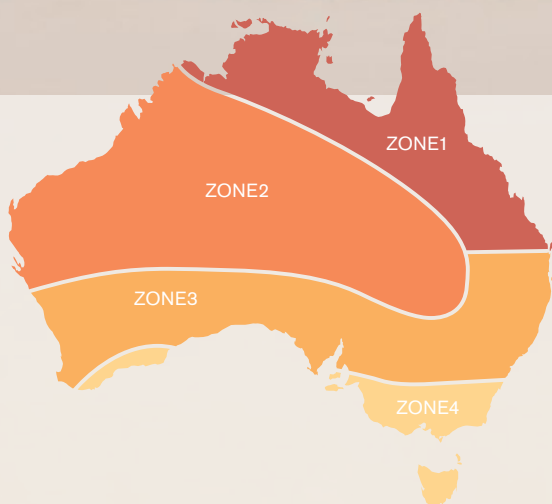
Small-scale Technology Certificates (STCs) (formerly known as RECs)

The purchase and installation of an Edson Solar Hot Water System may entitle you to Small-scale Technology Certificates (STCs) if your system is eligible under the Small-scale Renewable Energy Scheme. STCs are sold and transferred to liable entities (usually electricity retailers) through a market based online system called the REC Registry, or via the ORER managed STC Clearing House.

For more information, visit:
www.climatechange.gov.au
www.rec-registry.gov.au

Why should you go solar?

- It's free from the sun
- Reduce your hot water power bill by up to 70%
- Up to 90% of the system cost can be recovered in rebates and STCs in some areas
- Reduce your carbon footprint by up to 3 tonnes per year
- The equivalent of planting 200 trees or taking a small car off the road each year



STC Rebate Zones

One Small-scale Technology Certificate (STC) is the equivalent of one megawatt hour of renewable energy generation. Refer to your authorised Edson reseller for information regarding the STCs, State and Federal Government Rebates applicable to your choice of system.

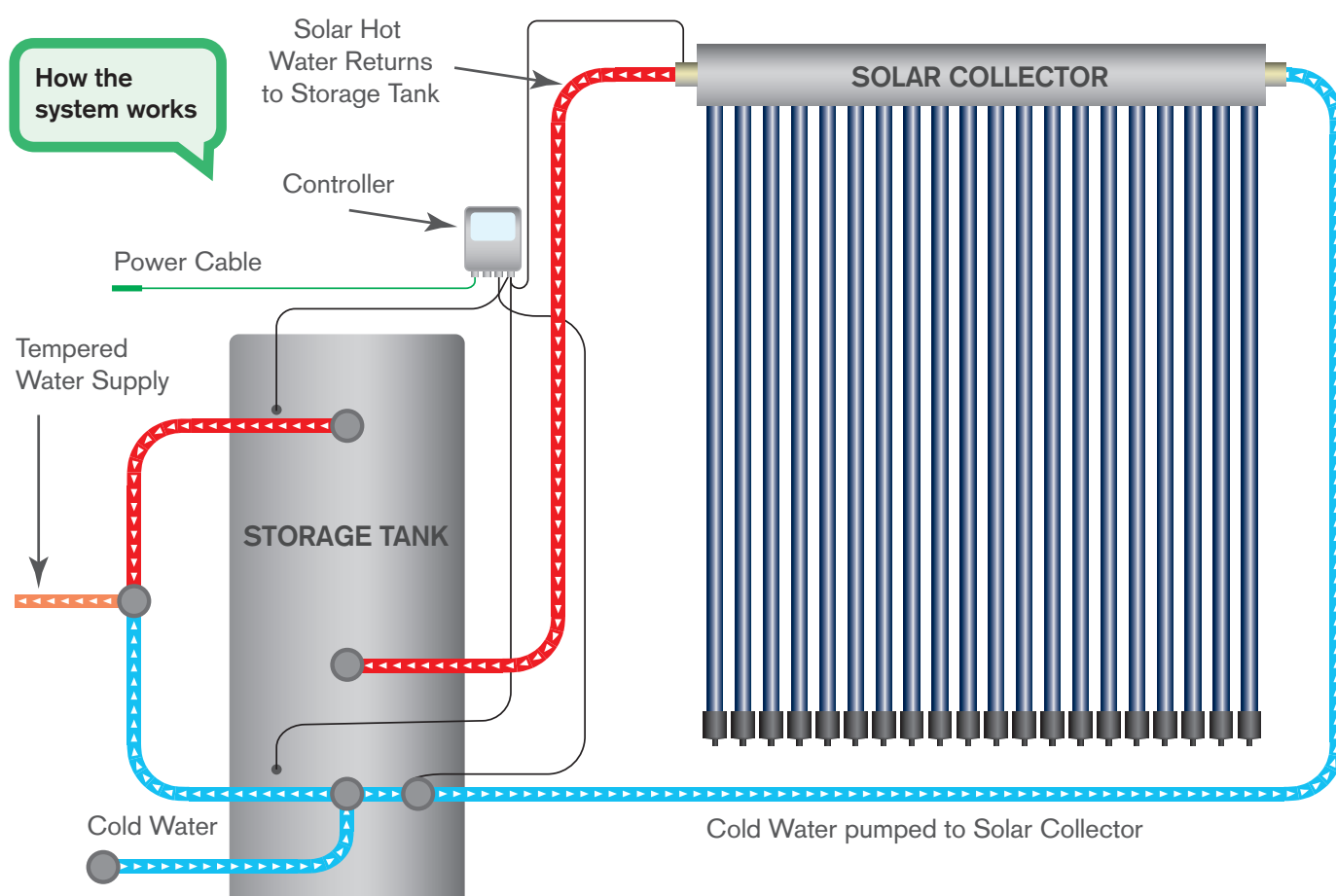
edson *Electric*

edson *Electric* Boosted Hot Water is supplied with your choice of Storage Tank in Vitreous Enamel or Stainless Steel. Coupled with our Evacuated Solar Tubes, either option will operate the same as a standard non-solar electric system.

It can be connected to off-peak electricity or attached to a timer to take it off automatic boosting. Our thermostat will read the water temperature to heat your water to 60°C to complement the energy harvested from the sun.

Domestic Usage	1-3 people	3-5 people	6+ people
Vitreous Storage Tank	270L	315L	400L
Stainless Steel Storage Tank	250L	315L	400L
Evacuated Tubes	20 or 30	30 or 40	50 or 60

For commercial installations, contact your nearest Edson authorised reseller



Specification	270L GLES	315L GLES	400L GLES	250L SS	315L SS	400L SS
Electric Element	3.6kW	3.6kW	3.6kW	3.6kW	3.6kW	3.6kW
Water Pressure Minimum	300 kPa	300 kPa	300 kPa	300 kPa	300 kPa	300 kPa
Anodal Protection	Yes	Yes	Yes	Not required	Not required	Not required
Bathrooms	1 to 2	1 to 3	2 to 4	1 to 2	1 to 3	2 to 3
Water Storage	270L	315L	400L	250L	315L	400L
Material	Vitreous Enamel	Vitreous Enamel	Vitreous Enamel	Stainless Steel	Stainless Steel	Stainless Steel

Electric Boosted Solar Hot Water

The perfect choice for solar hot water...

- Reduce your hot water power bill by up to 70%.
- Tested to Australian Standards for frost protection (-15°C).
- Up to 90% of your water heating system cost can be recovered in rebates and STCs in some areas.
- Evacuated Solar Tubes provide superior heat output, even on cloudy days.



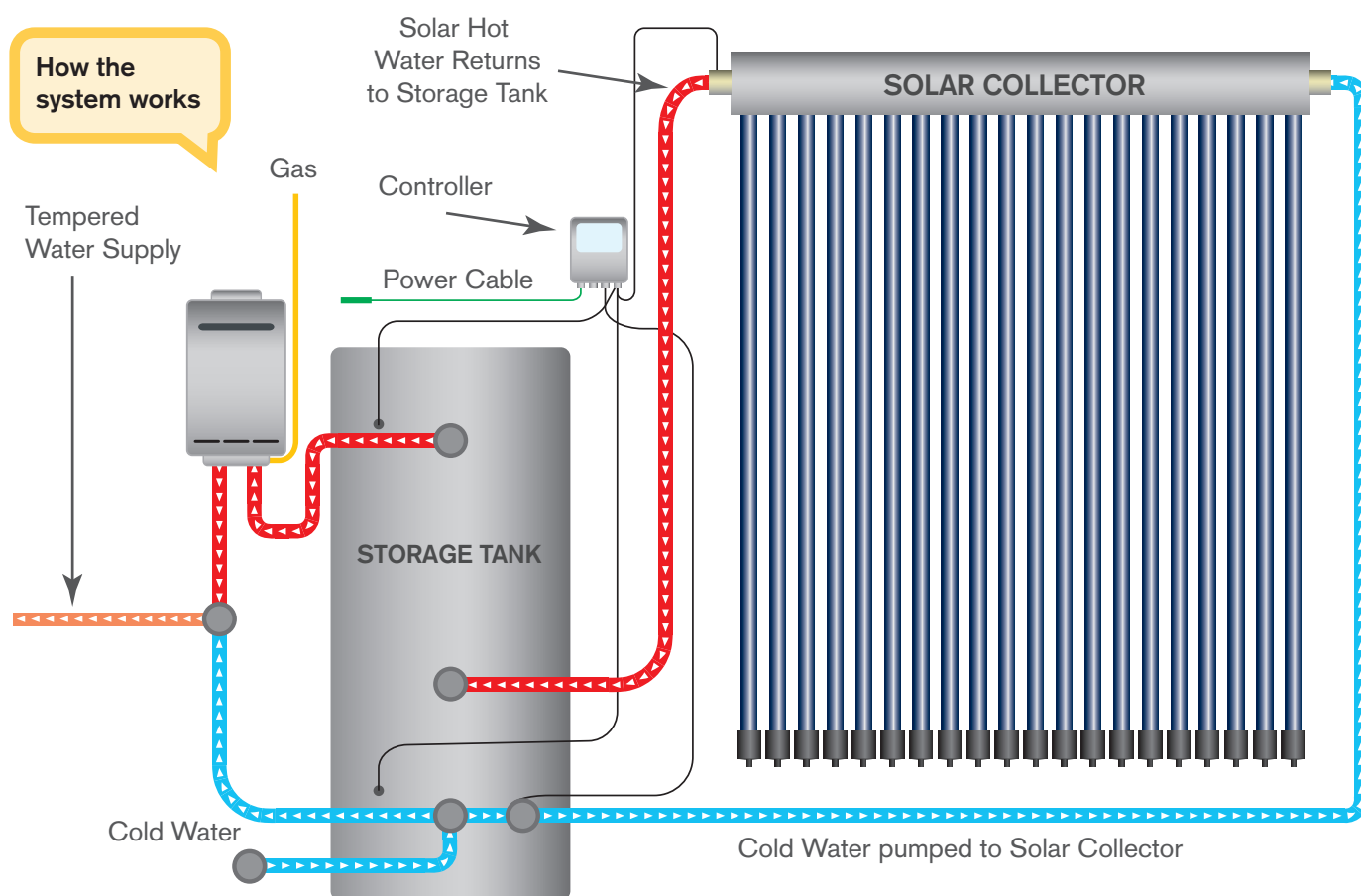
edson *Instantaneous Gas*

edson *Instantaneous Gas* Boosted Hot Water is supplied with either an S20 or S26 Solar Rated Instantaneous Booster Unit and either a Vitreous Enamel or Stainless Steel Storage Tank.

With the Instantaneous Gas solution, water is heated as you use it. An extremely efficient way of producing hot water. This system operates like a normal gas hot water system, without the constant gas usage, reducing your energy cost.

Domestic Usage	1-3 people	3-5 people	6+ people
Vitreous Storage Tank	270L	315L	400L
Stainless Steel Storage Tank	250L	315L	400L
Evacuated Tubes	20 or 30	30 or 40	50 or 60

For commercial installations, contact your nearest Edson authorised reseller



Specification	S20 (LP/NG)	S26 (LP/NG)
Hot Water Delivery	20L per minute	26L per minute
Megajoule Rating	160Mj/hr	199Mj/hr
Gas Supply	3/4" - Natural or LPG	3/4" - Natural or LPG
Water Pressure Minimum	120kPa	160 kPa
Gas Flow Rate	1.13–2.75kPa at unit	1.13–275 kPa at unit
Bathrooms	1 to 2	2 plus
Water Flow Minimum	9L per minute	9L per minute
Ambient Water Temp Rise	25°C	25°C
Material	Stainless Steel or Vitreous Enamel	Stainless Steel or Vitreous Enamel

Instantaneous Gas Boosted Solar Hot Water

The perfect choice for solar hot water...

- Reduce your hot water power bill by up to 70%.
- Tested to Australian Standards for frost protection (-15°C).
- Up to 90% of your water heating system cost can be recovered in rebates and STCs in some areas.
- Evacuated Solar Tubes provide superior heat output, even on cloudy days.



Gas or electric?

edson *Electric*



- ✓ Ideal for homes without gas connected
- ✓ Can be connected to off-peak electricity
- ✓ Can replace a standard non-solar electric system



**Save money with
Edson Electric**



Benefits of Edson Solar Hot Water Systems

- Evacuated Solar Tubes provide superior daily heat output due to positive sun tracking.
- Toughened 2mm glass evacuated tubes.
- Replacing individual tubes is low cost maintenance as opposed to replacing a complete Solar Flat Panel.
- Tested to Level 2 Australian Standards frost protection (-15°C).
- Maximum surface area and increased water turbulence between the Heat Pipe and Manifold for superior efficiency in the Heat Exchanger.
- Fibremesh Insulated Collector Manifold, Sealed Evacuated Tubes, Tri-chlor Absorber Coating and Freeze Protected Heat Pipes allow reliable solar gain all year round. No glycol or chemicals required!

edson *Instantaneous Gas*

- ✓ Highly energy efficient
- ✓ Low running costs
- ✓ Can replace a standard non-solar gas system



Upgrade to Edson Instantaneous Gas

ENVIRONMENTAL RATING



ENERGY EFFICIENCY



PURCHASE COST



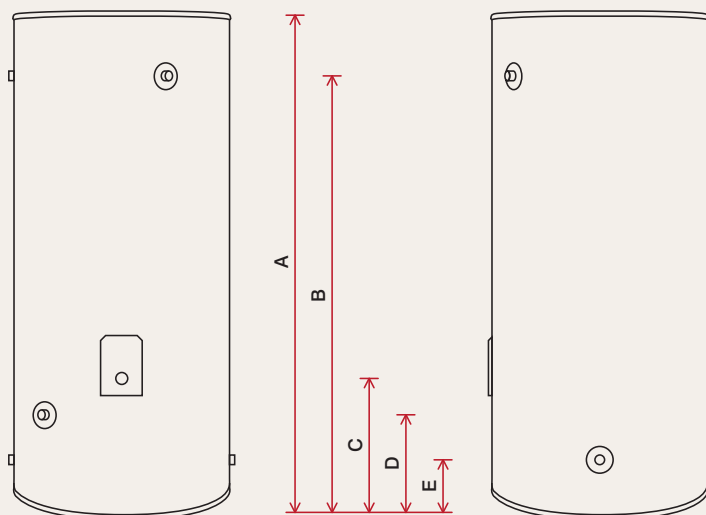
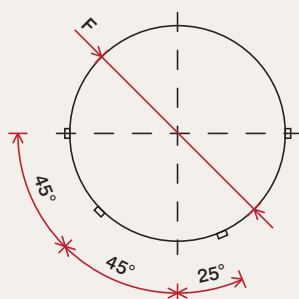
RUNNING COST



- 12 Sputted Layer, Tri-chlor Coating allows up to 97% of the heat from the sun to be retained.
- Every Edson Solar System is supplied complete with a Plumbers Installation Kit (Quickie Kit).
- Anodised Aluminium Collector and Frame provides both strength and long term corrosion resistance.
- All valves and insulation including the Tempering Valve are included.
- Super quiet, low energy Solar Circulation Pump.
- Inhouse engineering, technical, installation and service support.
- Long-life manufacturers warranty on all Edson products and parts.

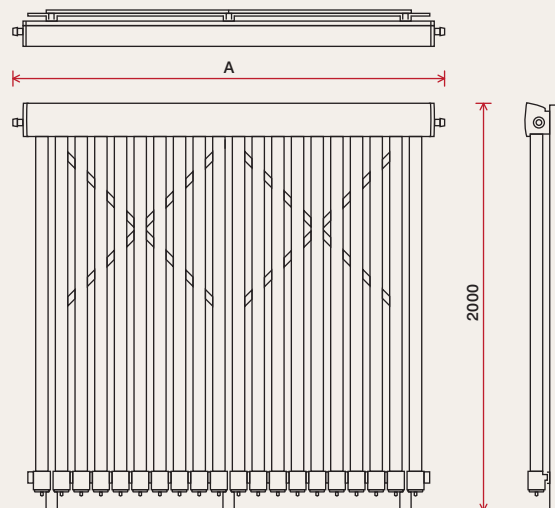
Specifications

Storage Tanks



Model	270L GLES	315L GLES	400L GLES	250L SS	315L SS	400L SS
A Height	1400mm	1690mm	1711mm	1815mm	2145mm	1798mm
B Hot Water Outlet & PTR Valve	1170mm	1470mm	1670mm	1580mm	1915mm	1432mm
C Electric Element	454mm	454mm	691mm	505mm	705mm	954mm
D Solar Return	380mm	574mm	680mm	375mm	430mm	487mm
E Cold Water Inlet	170mm	75mm	75mm	170mm	170mm	316mm
F Diameter	650mm	650mm	730mm	595mm	595mm	686mm

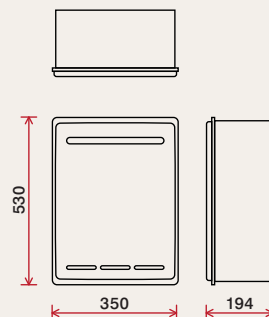
Evacuated Tubes



Combinations are used for more than 30 tubes.

Evacuated Tubes	10 Tubes	20 Tubes	30 Tubes
A Width	880mm	1635mm	2375mm

Instantaneous Gas Boost



For use with Instantaneous Gas Models S20 and S26

Contact your authorised Edson reseller or visit www.edson.com.au for installation information.

All dimensions displayed in millimetres | All information and guidelines outlined were correct at the time of printing



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Email: sales@edson.com.au | www.edson.com.au

* For assistance in obtaining discounted product after a natural disaster

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