



CARING FOR NATURE AND COMMUNITY
ELEVATES QUALITY AND EXPERIENCE



**Water Efficiency
& Savings**



**Energy Efficiency
& Savings**



**Waste Prevention &
Supply Chain**

**SIX PILLARS OF SUSTAINABLE
WINEGROWING LEADERSHIP**



**Proactive Farming, Soil
Health & Biodiversity**



**Social Justice,
Diversity & Inclusion**



**Climate Action &
Regenerative Ag**

**Napa Green Certified Vineyards implement
>100 sustainability & climate action practices:**

- I. Social Justice, Diversity & Inclusion**
- II. REGENERATIVE AG, SOIL HEALTH, AND CARBON FARM PLANS**
- III. IRRIGATION ASSESSMENTS & WATER EFFICIENCY**
- IV. Forest Management for Health & Fire Resilience**
- V. Prohibited & Restricted Pesticides**
- VI. CLIMATE-SMART BURNING**

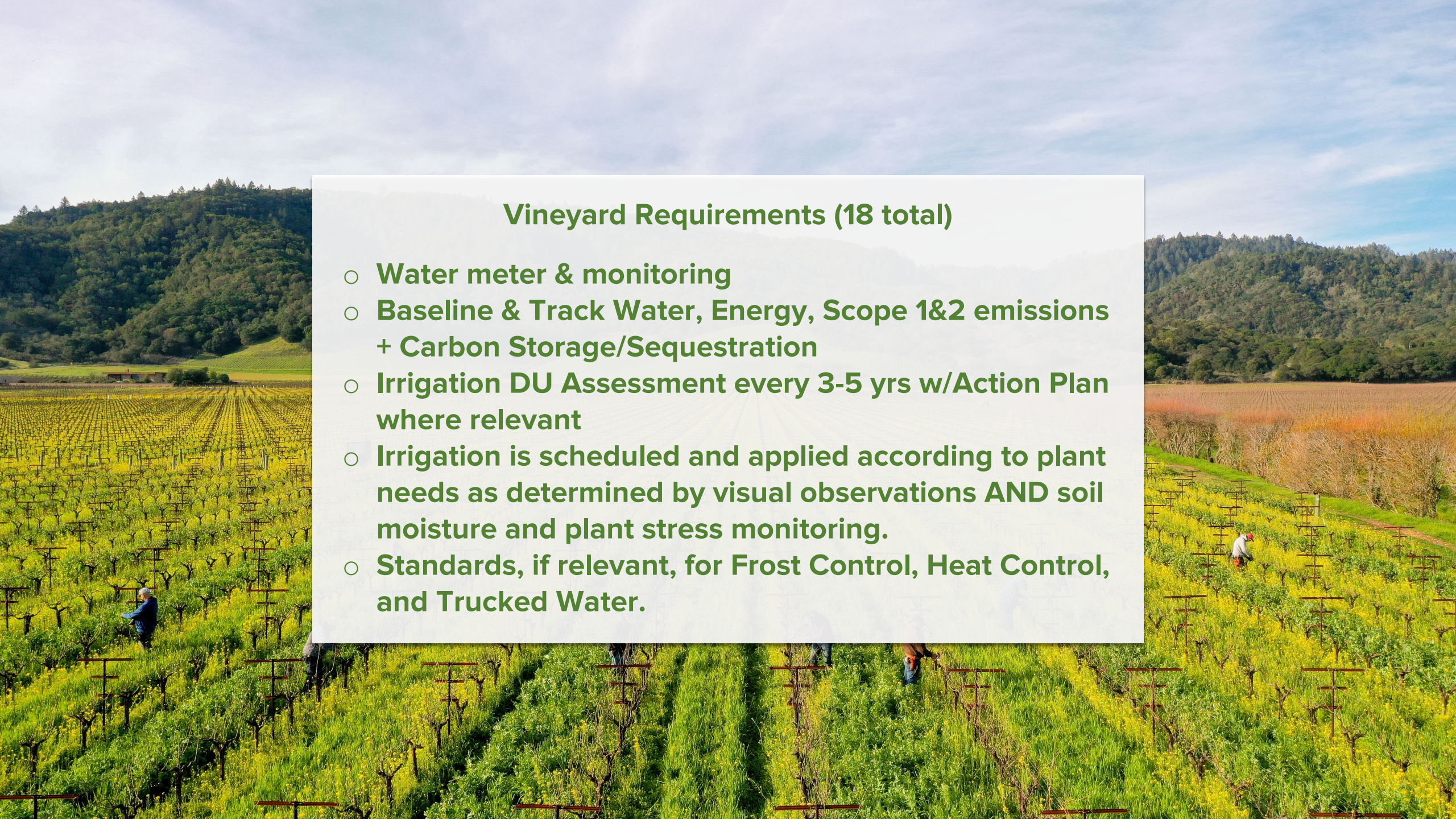
Why Napa Green's Glyphosate Ban is Such a Big Deal

BY KATE DINGWALL



**Napa Green Certified Wineries implement
>120 sustainability & climate action practices:**

- I. Social Justice, Diversity & Inclusion**
- II. ENERGY EFFICIENCY**
- III. WATER EFFICIENCY**
- IV. WASTE PREVENTION**
- V. Climate Action**
- VI. Leadership & Sustainability Engagement**



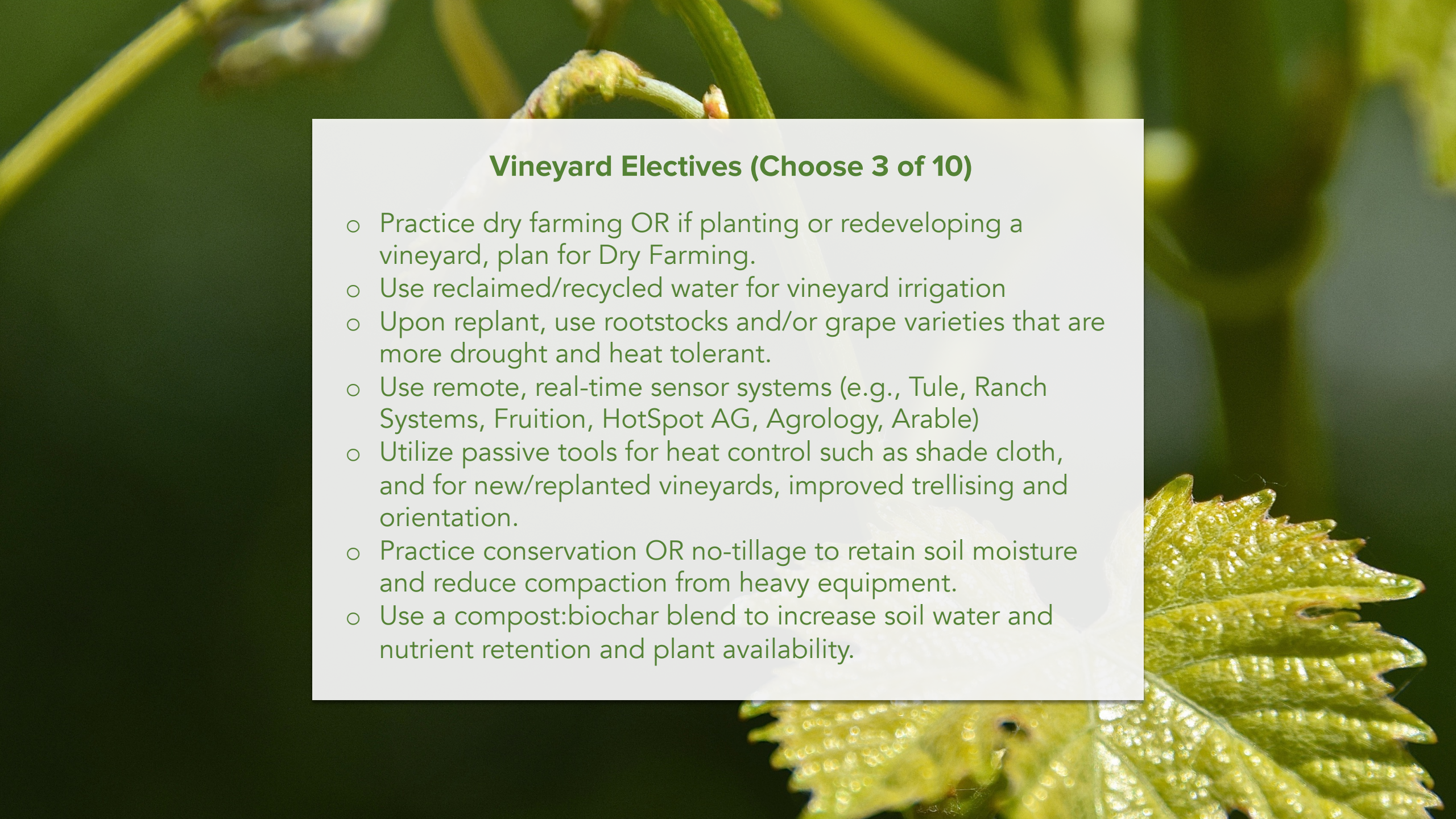
Vineyard Requirements (18 total)

- **Water meter & monitoring**
- **Baseline & Track Water, Energy, Scope 1&2 emissions + Carbon Storage/Sequestration**
- **Irrigation DU Assessment every 3-5 yrs w/Action Plan where relevant**
- **Irrigation is scheduled and applied according to plant needs as determined by visual observations AND soil moisture and plant stress monitoring.**
- **Standards, if relevant, for Frost Control, Heat Control, and Trucked Water.**

Water Data

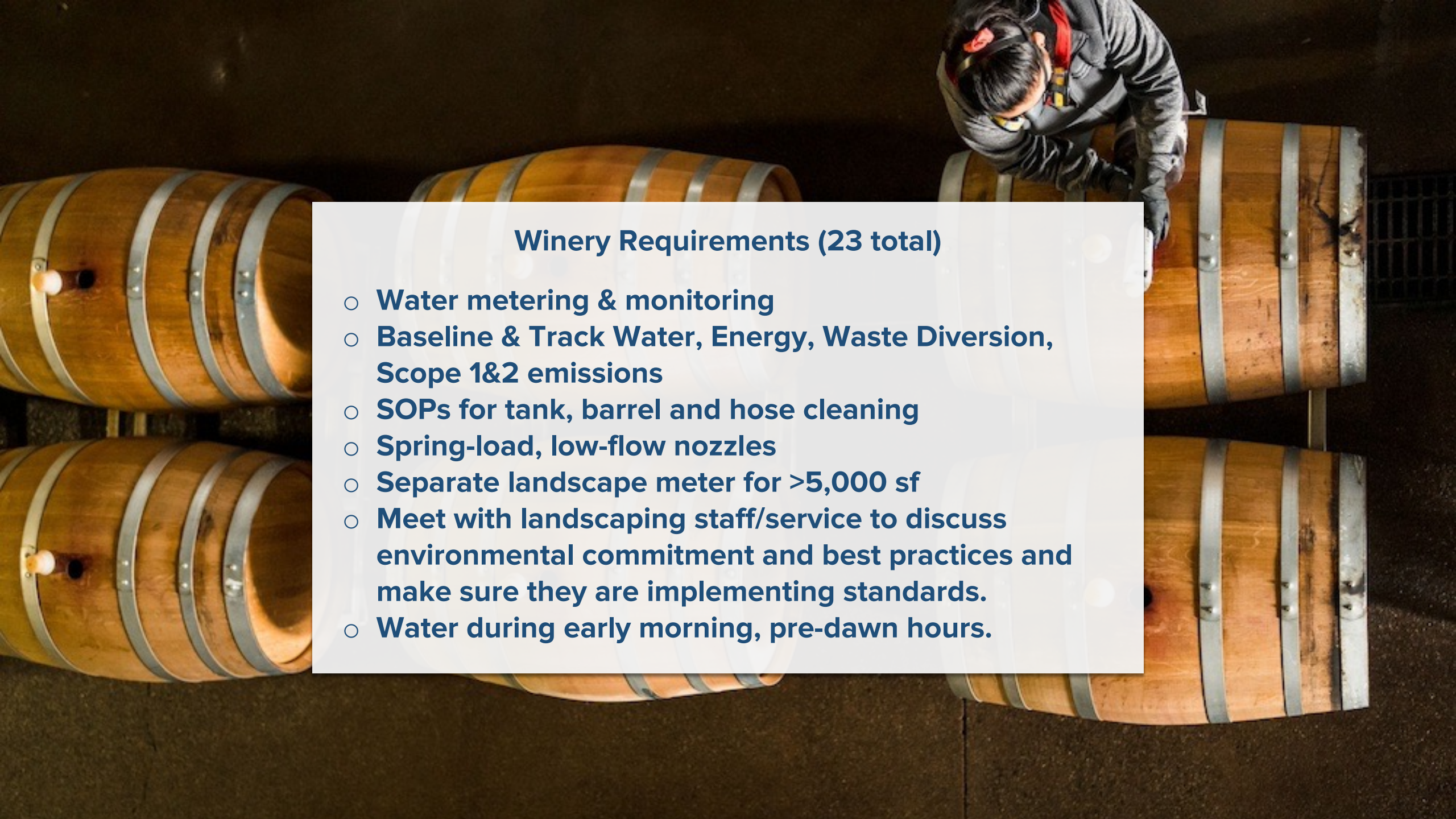
Export W

Month	Year	Gallons Irrigation Water	Gallons Frost Water	Gallons Other	Gallons Other 2	
JANUARY	2023	0	0	0	0	
FEBRUARY	2023	3258.00	0	0	0	
MARCH	2023	3259.00	0	0	0	
APRIL	2023	6517.00	0	0	0	
MAY	2023	110789.00	0	0	0	
JUNE	2023	166184.00	0	0	0	
JULY	2023	299782.00	0	0	0	
AUGUST	2023	241130.00	0	0	0	
SEPTEMBER	2023	916618.00	Metrics Electricity kWh/Ton Water Gallons/Ton Water Gallons/Acre			
OCTOBER	2023	185735.00				
NOVEMBER	2023	0			262.6	
DECEMBER	2023	0				
					16666.1	
Total	*****	1933272			50875.6	



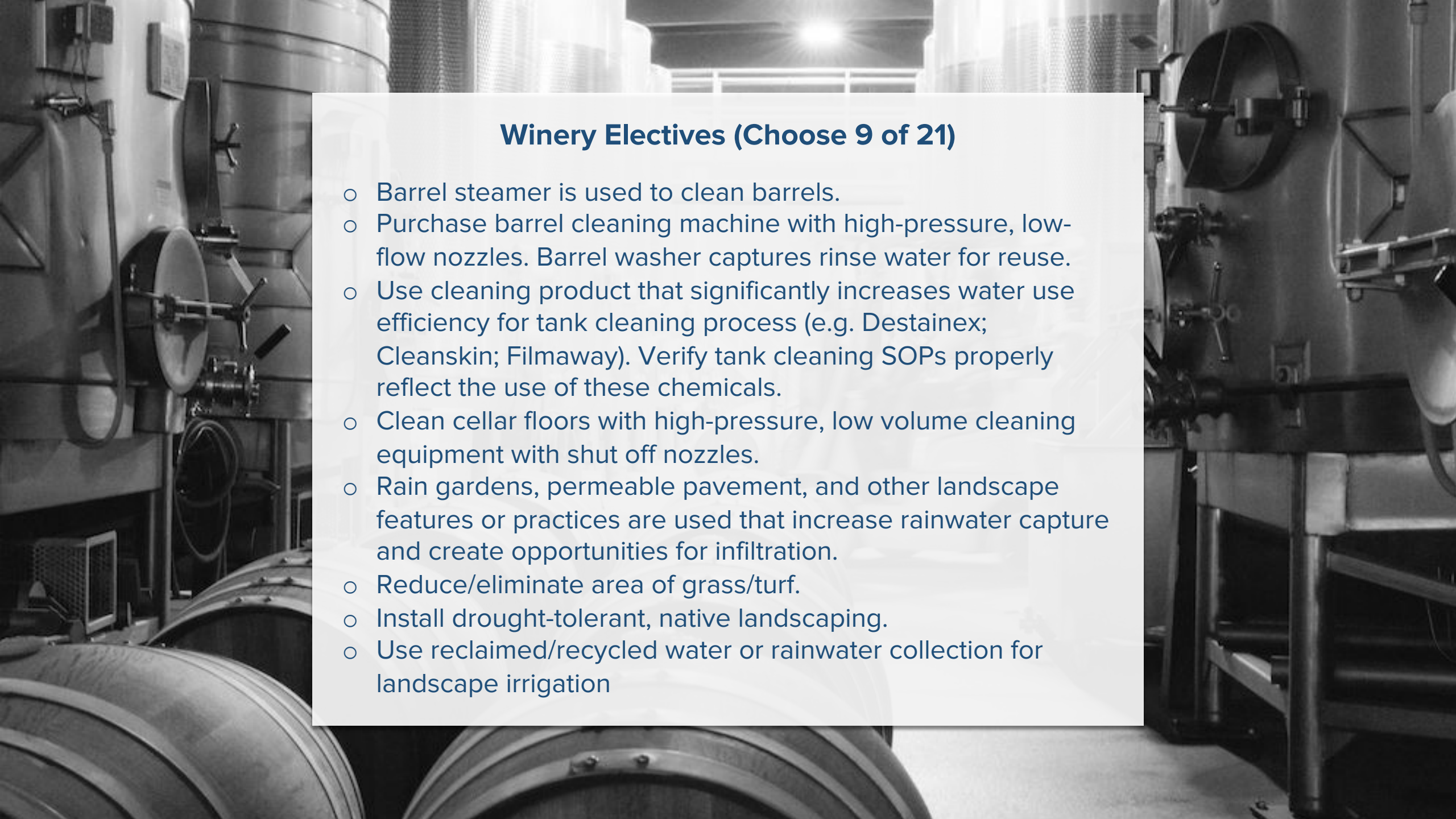
Vineyard Electives (Choose 3 of 10)

- Practice dry farming OR if planting or redeveloping a vineyard, plan for Dry Farming.
- Use reclaimed/recycled water for vineyard irrigation
- Upon replant, use rootstocks and/or grape varieties that are more drought and heat tolerant.
- Use remote, real-time sensor systems (e.g., Tule, Ranch Systems, Fruition, HotSpot AG, Agrology, Arable)
- Utilize passive tools for heat control such as shade cloth, and for new/replanted vineyards, improved trellising and orientation.
- Practice conservation OR no-tillage to retain soil moisture and reduce compaction from heavy equipment.
- Use a compost:biochar blend to increase soil water and nutrient retention and plant availability.

A person wearing a grey jacket and a red safety harness is working on wooden wine barrels in a cellar. The barrels are arranged in rows, and the person is leaning over one of them, possibly inspecting or working on it. The background is dark, suggesting an underground or indoor setting.

Winery Requirements (23 total)

- **Water metering & monitoring**
- **Baseline & Track Water, Energy, Waste Diversion, Scope 1&2 emissions**
- **SOPs for tank, barrel and hose cleaning**
- **Spring-load, low-flow nozzles**
- **Separate landscape meter for >5,000 sf**
- **Meet with landscaping staff/service to discuss environmental commitment and best practices and make sure they are implementing standards.**
- **Water during early morning, pre-dawn hours.**



Winery Electives (Choose 9 of 21)

- Barrel steamer is used to clean barrels.
- Purchase barrel cleaning machine with high-pressure, low-flow nozzles. Barrel washer captures rinse water for reuse.
- Use cleaning product that significantly increases water use efficiency for tank cleaning process (e.g. Destainex; Cleanskin; Filmaway). Verify tank cleaning SOPs properly reflect the use of these chemicals.
- Clean cellar floors with high-pressure, low volume cleaning equipment with shut off nozzles.
- Rain gardens, permeable pavement, and other landscape features or practices are used that increase rainwater capture and create opportunities for infiltration.
- Reduce/eliminate area of grass/turf.
- Install drought-tolerant, native landscaping.
- Use reclaimed/recycled water or rainwater collection for landscape irrigation



VERIFICATION

- Vineyard “consulting” services:
 - Carbon Farm Plan Assessment & Report
 - Irrigation DU Assessment & Report
 - Support for soil sampling
- Custom online Metric Calculator
- Third-party independent audit
- Annual Desk Audit

- Winery “consulting” services:
 - Integrated Resource Assessment w/Program Engineer reviewing data, metrics, production, equipment. Provide recommendations report.
- Custom online Metric Calculator
- Third-party independent audit
- Annual Desk Audit

A landscape photograph showing a grassy hillside under a clear blue sky. Several trees with bare or sparsely-leaved branches are scattered across the slope. In the foreground and middle ground, there are distinct patches of dark, charred soil or wood, suggesting a recent fire. The overall scene is bright and sunny, with long shadows cast across the grass.

Forest Management for Health & Fire Resilience

An aerial photograph of a vineyard in the Napa Valley. The image shows rows of grapevines, a small pond, and some trees. A white text box is overlaid in the center of the image.

THE FUTURE OF WATER

**May 23 | 9-12:15 pm
Silver Oak Napa Valley**

**Keynotes from Peter Gleick, Co-founder, Pacific
Institute, and author “The Three Ages of Water”**

&

**Mimi Casteel, Viticulturist, Hope Well Wine,
and Forest Ecologist**

<https://napagreen.org/events-workshops/>