# C:\Users\DARTY\Dropbox\eolecole\communication\charte graphique\Eolecole\01_EolEcole_Logo\EolEcole_Logo\EolEcole_Logo.pngEtude et construction d’une éolienne

## Partie V :

## Adaptation électronique, pont de diode et application

Peut-on brancher directement l’éolienne sur la batterie ? Que faut-il faire préalablement ?

### La diode

Réaliser le montage suivant (se servir du schéma de la diode ci-contre).

Qu’observez-vous ?

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

Réaliser le montage suivant.



Qu’observez-vous ?

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

Que pouvez-vous conclure ?

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

Indiquer sur le schéma de la diode (première page en haut à droite) le - (cathode) et le + (anode)

Avant de réaliser le montage ci-dessous, émettre une hypothèse sur l’état de la lampe est justifiée là (allumée, éteinte ...) :

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

Réaliser le montage.

Votre hypothèse est-elle vérifiée ? \_ \_ \_ \_ \_

### Le pont de diodes

Réaliser le montage ci-dessous

Mesurer la tension aux bornes de la résistance.

0 s : \_ \_ \_ \_ \_ \_ \_ \_

8 s : \_ \_ \_ \_ \_ \_ \_ \_

16 s : \_ \_ \_ \_ \_ \_ \_ \_

24 s : \_ \_ \_ \_ \_ \_ \_ \_

**Conclusion:** (Parler de la diode luminescente et de la tension)

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

Indiquer sur le schéma ci-dessous le sens du courant sur toutes les branches et placer une croix sur les branches où le courant ne peut pas passer.



Indiquer sur le schéma ci-dessous le sens du courant sur toutes les branches et placer une croix sur les branches où le courant ne peut pas passer.

